

DATA PROJECTOR

MODEL

XG-P560W XG-P560W-N

SETUP MANUAL

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Setting up the Screen

For optimal image quality, position the projector perpendicular to the screen with the projector's feet flat and level. Doing so will eliminate the need for Keystone correction and provide the best image quality.

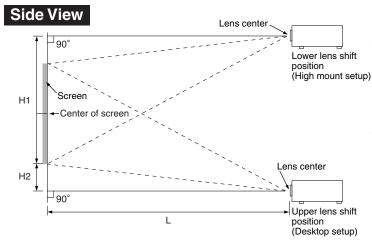


- The projector lens should be centered in the middle of the screen. If the horizontal line passing through the lens center is not perpendicular to the screen, the image will be distorted, making viewing difficult.
- For an optimal image, position the screen so that it is not in direct sunlight or room light. Light falling directly on the screen washes out the colors, making viewing difficult. Close the curtains and dim the lights when setting up the screen in a sunny or bright room.

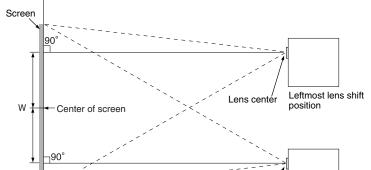
Standard Setup (Front Projection)

Place the projector at the required distance from the screen according to the desired picture size.

Example of standard setup



- The distance from the screen to the projector may vary
 depending on the size of the screen.
- The default setting can be used, when placing the projector in front of the screen. If the projected image is reversed, readjust the setting to "Front" in the "PRJ Mode" menu. (See page 62 of the projector's operation manual.)
- Place the projector so that an imaginary horizontal line that passes through the center of the lens is perpendicular to the screen.



Lens centér

Rightmost lens shift

position

Top View

Screen Size and Projection Distance

The projection screen size varies according to the distance from the lens of the projector to the screen.

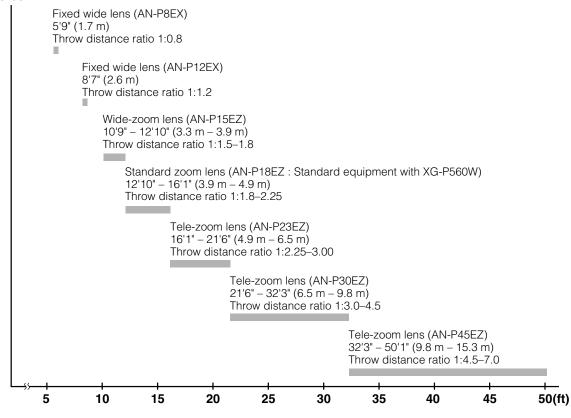
The optional lenses from Sharp are also available for specialized application. Please see your nearest Sharp Authorized Projector Dealer to details on all the lenses. (Refer to the lens operation manual when using a lens.)

Install the projector so that projected images are projected onto the screen at the optimum size by referring to the table. Use the values in the table as a reference when installing the projector.

Throw Distance

The graph below is for 100 inches (254 cm) screen with 16:10 normal mode

Screen



Screen Size and Projection Distance

Standard Zoom Lens (AN-P18EZ: Standard Equipment with XG-P560W) F2.5, f=25.5-32 mm

16:10 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the the bottom of	ne lens center to the image [H]	Distance from the lens center to the center of	
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
280" (711 cm)	603 cm (237")	377 cm (148")	11.0 m (36' 0")	13.7 m (45' 1")	-439.1 cm (-172 ⁵⁵ / ₆₄ ")	62.2 cm (24 31/64")	±211.1 cm (83 ³ / ₃₂ ")
250" (635 cm)	538 cm (212")	337 cm (132")	9.8 m (32' 2")	12.3 m (40' 3")	-392.0 cm (-154 11/32")	55.5 cm (21 ⁵⁵ / ₆₄ ")	±188.4 cm (74 ³ / ₁₆ ")
200" (508 cm)	431 cm (170")	269 cm (106")	7.8 m (25' 9")	9.8 m (32' 3")	-313.6 cm (-123 15/32")	44.4 cm (17 31/64")	±150.8 cm (59 ²³ / ₆₄ ")
150" (381 cm)	323 cm (127")	202 cm (79")	5.9 m (19' 3")	7.4 m (24' 2")	-235.2 cm (-92 39/64")	33.3 cm (13 ⁷ / ₆₄ ")	±113.1 cm (44 ³³ / ₆₄ ")
120" (305 cm)	258 cm (102")	162 cm (64")	4.7 m (15' 5")	5.9 m (19' 4")	-188.2 cm (-74 ⁵ / ₆₄ ")	26.7 cm (10 ¹ / ₂ ")	±90.5 cm (35 ³⁹ / ₆₄ ")
100" (254 cm)	215 cm (85")	135 cm (53")	3.9 m (12' 10")	4.9 m (16' 1")	-156.8 cm (-61 ⁴⁷ / ₆₄ ")	22.2 cm (8 ³ / ₄ ")	±75.4 cm (29 ⁴³ / ₆₄ ")
80" (203 cm)	172 cm (68")	108 cm (42")	3.1 m (10' 3")	3.9 m (12' 11")	-125.5 cm (-49 ²⁵ / ₆₄ ")	17.8 cm (7")	±60.3 cm (23 ⁴⁷ / ₆₄ ")
60" (152 cm)	129 cm (51")	81 cm (32")	2.4 m (7' 9")	2.9 m (9' 8")	-94.1 cm (-37 ³ / ₆₄ ")	13.3 cm (5 ¹ / ₄ ")	±45.2 cm (17 ¹³ / ₁₆ ")

Picture size (diag.) (in/cm)

Minimum projection distance (m/ft)

Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in) H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.0392X L2 (m) = 0.0491X

H1 (cm) = -1.56815X H2 (cm) = 0.2221X

 $W (cm) = \pm 0.75379 \chi$

[Feet/inches] L1 (ft) = 0.0392X / 0.3048

 $L2 (ft) = 0.0491 \times / 0.3048$

H1 (in) = -1.56815 $^{\circ}$ / 2.54

H2 (in) = $0.2221\chi / 2.54$ $W(in)' = \pm 0.75379 \% / 2.54$

4:3 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the lens center to the bottom of the image [H]		Distance from the lens center to the center of	
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
240" (610 cm)	488 cm (192")	366 cm (144")	10.7 m (34' 11")	13.3 m (43' 9")	-426.1 cm (-167 47/64")	60.3 cm (23 3/4")	±204.8 cm (80 41/64")
200" (508 cm)	406 cm (160")	305 cm (120")	8.9 m (29' 1")	11.1 m (36' 6")	-355.1 cm (-139 ²⁵ / ₃₂ ")	50.3 cm (19 51/64")	±170.7 cm (67 ¹³ / ₆₄ ")
150" (381 cm)	305 cm (120")	229 cm (90")	6.7 m (21' 10")	8.3 m (27' 4")	-266.3 cm (-104 ²⁷ / ₃₂ ")	37.7 cm (14 ²⁷ / ₃₂ ")	±128.0 cm (50 ¹³ / ₃₂ ")
120" (305 cm)	244 cm (96")	183 cm (72")	5.3 m (17' 6")	6.7 m (21' 11")	-213.0 cm (-83 ⁷ / ₈ ")	30.2 cm (11 ⁷ / ₈ ")	±102.4 cm (40 ⁵ / ₁₆ ")
100" (254 cm)	203 cm (80")	152 cm (60")	4.4 m (14' 7")	5.6 m (18' 3")	-177.5 cm (-69 ⁵⁷ / ₆₄ ")	25.1 cm (9 ²⁹ / ₃₂ ")	±85.3 cm (33 ¹⁹ / ₃₂ ")
80" (203 cm)	163 cm (64")	122 cm (48")	3.6 m (11' 8")	4.4 m (14' 7")	-142.0 cm (-55 ²⁹ / ₃₂ ")	20.1 cm (7 ⁵⁹ / ₆₄ ")	±68.3 cm (26 ⁷ / ₈ ")
70" (178 cm)	142 cm (56")	107 cm (42")	3.1 m (10' 2")	3.9 m (12' 9")	-124.3 cm (-48 ⁵⁹ / ₆₄ ")	17.6 cm (6 ⁵⁹ / ₆₄ ")	±59.7 cm (23 ³³ / ₆₄ ")
60" (152 cm)	122 cm (48")	91 cm (36")	2.7 m (8' 9")	3.3 m (10' 11")	-106.5 cm (-41 ¹⁵ / ₁₆ ")	15.1 cm (5 ¹⁵ / ₁₆ ")	±51.2 cm (20 ⁵ / ₃₂ ")

Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in) W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.04438X L2 (m) = 0.05559X

H1 (cm) = -1.77527χ

H2 (cm) = 0.25143X W (cm) = ± 0.85344 X

[Feet/inches]

L1 (ft) = 0.04438X / 0.3048

L2 (ft) = 0.05559 % / 0.3048

H1 (in) = -1.77527% / 2.54 H2 (in) = 0.25143% / 2.54

 $W (in) = \pm 0.85344 \% / 2.54$



- Allow a margin of error in the value in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Fixed Wide Lens (AN-P8EX)

F2.5, f=11.6 mm

16:10 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance		ne lens center to the image [H]	Distance from the lens center to the center of	
Diag. [χ]	Width	Height	[L]	Lower [H1] Upper [H2]		the image [W]
140" (356 cm)	302 cm (119")	188 cm (74")	2.4 m (8' 0")	-135.7 cm (-53 ²⁷ / ₆₄ ")	-52.8 cm (-20 ²⁵ / ₃₂ ")	±33.2cm (13 ¹ / ₁₆ ")
120" (305 cm)	258 cm (102")	162 cm (64")	2.1 m (6' 10")	-116.3 cm (-45 ²⁵ / ₃₂ ")	-45.2 cm (-17 ¹³ / ₁₆ ")	±28.4cm (11 ³ / ₁₆ ")
100" (254 cm)	215 cm (85")	135 cm (53")	1.7 m (5' 9")	-96.9 cm (-38 ⁵ / ₃₂ ")	-37.7 cm (-14 ²⁷ / ₃₂ ")	±23.7cm (9 ²¹ / ₆₄ ")
80" (203 cm)	172 cm (68")	108 cm (42")	1.4 m (4' 7")	-77.5 cm (-30 ¹⁷ / ₃₂ ")	-30.2 cm (-11 ⁷ / ₈ ")	±19.0cm (7 ¹⁵ / ₃₂ ")

Picture size (diag.) (in/cm)

Projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance [m/cm]

L(m) = 0.01744X

H1 (cm) = -0.96916X H2 (cm) = -0.37689X

 $W (cm) = \pm 0.23691 \chi$

[Feet/inches] L (ft) = 0.01744 % / 0.3048

H1 (in) = -0.96916 % / 2.54H2 (in) = -0.37689 % / 2.54

W (in) = $\pm 0.23691 \% / 2.54$

4:3 Signal Input (Normal Mode)

Picture (Screen) size			Projection distance	Distance from the bottom of	ne lens center to the image [H]	Distance from the lens center to the center of
Diag. [χ]	Width	Height	[L]	Lower [H1] Upper [H2]		the image [W]
120" (305 cm)	244 cm (96")	183 cm (72")	2.4 m (7' 9")	-131.7 cm (-51 ⁵³ / ₆₄ ")	-51.2 cm (-20 ⁵ / ₃₂ ")	±32.2cm (12 ⁴³ / ₆₄ ")
100" (254 cm)	203 cm (80")	152 cm (60")	2.0 m (6' 6")	-109.7 cm (-43 ³ / ₁₆ ")	-42.7 cm (-16 ⁵¹ / ₆₄ ")	±26.8cm (10 9/16")
80" (203 cm)	163 cm (64")	122 cm (48")	1.6 m (5' 2")	-87.8 cm (-34 ⁹ / ₁₆ ")	-34.1 cm (-13 ⁷ / ₁₆ ")	±21.5cm (8 ²⁹ / ₆₄ ")
70" (178 cm)	142 cm (56")	107 cm (42")	1.4 m (4' 6")	-76.8 cm (-30 ¹⁵ / ₆₄ ")	-29.9 cm (-11 ⁴⁹ / ₆₄ ")	±18.8cm (7 ²⁵ / ₆₄ ")

Picture size (diag.) (in/cm)

Projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

L(m) = 0.01974X

H1 (cm) = -1.09716XH2 (cm) = -0.42667XW (cm) = $\pm 0.26823X$

[Feet/inches] L (ft) = 0.01974% / 0.3048

H1 (in) = $-1.09716 \times / 2.54$

H2 (in) = -0.42667% / 2.54

 $W(in)' = \pm 0.26823 \% / 2.54$



- Allow a margin of error in the value in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Screen Size and Projection Distance

Fixed Wide Lens (AN-P12EX)

F2.5, f=17.1 mm

16:10 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance	Distance from the bottom of	ne lens center to the image [H]	Distance from the lens center to the center of	
Diag. [χ]	Width	Height	[L]	Lower [H1]	Upper [H2]	the image [W]
230" (584 cm)	495 cm (195")	310 cm (122")	6.0 m (19' 9")	-222.9 cm (-87 ⁴⁹ / ₆₄ ")	-86.7 cm (-34 ¹ / ₈ ")	±54.5cm (21 ²⁹ / ₆₄ ")
200" (508 cm)	431 cm (170")	269 cm (106")	5.2 m (17' 2")	-193.8 cm (-76 ⁵ / ₁₆ ")	-75.4 cm (-29 ⁴³ / ₆₄ ")	±47.4cm (18 ²¹ / ₃₂ ")
150" (381 cm)	323 cm (127")	202 cm (79")	3.9 m (12' 11")	-145.4 cm (-57 ¹⁵ / ₆₄ ")	-56.5 cm (-22 ¹ / ₄ ")	±35.5cm (13 63/64")
120" (305 cm)	258 cm (102")	162 cm (64")	3.1 m (10' 4")	-116.3 cm (-45 ²⁵ / ₃₂ ")	-45.2 cm (-17 ¹³ / ₁₆ ")	±28.4cm (11 ³ / ₁₆ ")
100" (254 cm)	215 cm (85")	135 cm (53")	2.6 m (8' 7")	-96.9 cm (-38 ⁵ / ₃₂ ")	-37.7 cm (-14 ²⁷ / ₃₂ ")	±23.7cm (9 ²¹ / ₆₄ ")
80" (203 cm)	172 cm (68")	108 cm (42")	2.1 m (6' 10")	-77.5 cm (-30 ¹⁷ / ₃₂ ")	-30.2 cm (-11 ⁷ / ₈ ")	±19.0cm (7 ¹⁵ / ₃₂ ")
60" (152 cm)	129 cm (51")	81 cm (32")	1.6 m (5' 2")	-58.1 cm (-22 ⁵⁷ / ₆₄ ")	-22.6 cm (-8 ²⁹ / ₃₂ ")	±14.2cm (5 ¹⁹ / ₃₂ ")

Picture size (diag.) (in/cm)

Projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in) H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L(m) = 0.02619%

H1 (cm) = -0.96916X H2 (cm) = -0.37689X

 $W (cm) = \pm 0.23691 \chi$

[Feet/inches]

 $L (ft) = 0.02619 \times / 0.3048$

H1 (in) = -0.96916 % / 2.54H2 (in) = -0.37689 % / 2.54

 $W(in) = \pm 0.23691 \% / 2.54$

4:3 Signal Input (Normal Mode)

Picture (Screen) size			Projection distance Distance from the ler the bottom of the in			Distance from the lens center to the center of
Diag. [χ]	Width	Height	[L]	Lower [H1]	Upper [H2]	the image [W]
200" (508 cm)	406 cm (160")	305 cm (120")	5.9 m (19' 5")	-219.4 cm (-86 ²⁵ / ₆₄ ")	-85.3 cm (-33 ¹⁹ / ₃₂ ")	±53.6cm (21 ¹ / ₈ ")
150" (381 cm)	305 cm (120")	229 cm (90")	4.4 m (14' 7")	-164.6 cm (-64 51/64")	-64.0 cm (-25 ¹³ / ₆₄ ")	±40.2cm (15 ²⁷ / ₃₂ ")
120" (305 cm)	244 cm (96")	183 cm (72")	3.6 m (11' 8")	-131.7 cm (-51 ⁵³ / ₆₄ ")	-51.2 cm (-20 ⁵ / ₃₂ ")	±32.2cm (12 ⁴³ / ₆₄ ")
100" (254 cm)	203 cm (80")	152 cm (60")	3.0 m (9' 9")	-109.7 cm (-43 ³ / ₁₆ ")	-42.7 cm (-16 51/64")	±26.8cm (10 ⁹ / ₁₆ ")
80" (203 cm)	163 cm (64")	122 cm (48")	2.4 m (7' 9")	-87.8 cm (-34 ⁹ / ₁₆ ")	-34.1 cm (-13 ⁷ / ₁₆ ")	±21.5cm (8 ²⁹ / ₆₄ ")
70" (178 cm)	142 cm (56")	107 cm (42")	2.1 m (6' 10")	-76.8 cm (-30 ¹⁵ / ₆₄ ")	-29.9 cm (-11 ⁴⁹ / ₆₄ ")	±18.8cm (7 ²⁵ / ₆₄ ")
60" (152 cm)	122 cm (48")	91 cm (36")	1.8 m (5' 10")	-65.8 cm (-25 ⁵⁹ / ₆₄ ")	-25.6 cm (-10 ⁵ / ₆₄ ")	±16.1cm (6 11/32")

Picture size (diag.) (in/cm)

Projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in) H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm] L (m) = 0.02965X

H1 (cm) = -1.09716%

 $H2 (cm) = -0.42667 \chi$

 $W (cm) = \pm 0.26823 \chi$

[Feet/inches]

 \bar{L} (ft) = 0.02965 χ / 0.3048

H1 (in) = $-1.09716\chi / 2.54$ H2 (in) = $-0.42667\chi / 2.54$

 $W(in) = \pm 0.26823 \% / 2.54$



- Allow a margin of error in the value in the diagrams above.
- · When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Wide-zoom Lens (AN-P15EZ)

F2.5, f=21.2-25.8 mm

16:10 Signal Input (Normal Mode)

Picture (Screen) size Projection distar		distance [L]	Distance from the lens center to the bottom of the image [H]		Distance from the lens center to the center of		
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
230" (584 cm)	495 cm (195")	310 cm (122")	7.5 m (24' 8")	9.0 m (29' 7")	-360.7 cm (-142")	51.1 cm (20 ⁷ / ₆₄ ")	±173.4cm (68 ¹ / ₄ ")
200" (508 cm)	431 cm (170")	269 cm (106")	6.5 m (21' 6")	7.8 m (25' 9")	-313.6 cm (-123 ¹⁵ / ₃₂ ")	44.4 cm (17 31/64")	±150.8cm (59 ²³ / ₆₄ ")
150" (381 cm)	323 cm (127")	202 cm (79")	4.9 m (16' 1")	5.9 m (19' 3")	-235.2 cm (-92 39/64")	33.3 cm (13 ⁷ / ₆₄ ")	±113.1cm (44 33/64")
120" (305 cm)	258 cm (102")	162 cm (64")	3.9 m (12' 11")	4.7 m (15' 5")	-188.2 cm (-74 ⁵ / ₆₄ ")	26.7 cm (10 ¹ / ₂ ")	±90.5cm (35 39/64")
100" (254 cm)	215 cm (85")	135 cm (53")	3.3 m (10' 9")	3.9 m (12' 10")	-156.8 cm (-61 ⁴⁷ / ₆₄ ")	22.2 cm (8 ³ / ₄ ")	±75.4cm (29 43/64")
80" (203 cm)	172 cm (68")	108 cm (42")	2.6 m (8' 7")	3.1 m (10' 3")	-125.5 cm (-49 ²⁵ / ₆₄ ")	17.8 cm (7")	±60.3cm (23 ⁴⁷ / ₆₄ ")
60" (152 cm)	129 cm (51")	81 cm (32")	2.0 m (6' 5")	2.4 m (7' 9")	-94.1 cm (-37 ³ / ₆₄ ")	13.3 cm (5 ¹ / ₄ ")	±45.2cm (17 13/16")

Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in) H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.03274X L2 (m) = 0.0392X

H1 (cm) = -1.56815X H2 (cm) = 0.2221X

 $W (cm) = \pm 0.75379 \%$

W (dff) = 10.73579X [Feet/inches] L1 (ft) = 0.03274X / 0.3048 L2 (ft) = 0.0392X / 0.3048 H1 (in) = -1.56815X / 2.54 H2 (in) = 0.2221X / 2.54

W (in) = $\pm 0.75379\% / 2.54$

4:3 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the the bottom of		Distance from the lens center to the center of	
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
200" (508 cm)	406 cm (160")	305 cm (120")	7.4 m (24' 4")	8.9 m (29' 1")	-355.1 cm (-139 ²⁵ / ₃₂ ")	50.3 cm (19 51/64")	±170.7cm (67 ¹³ / ₆₄ ")
150" (381 cm)	305 cm (120")	229 cm (90")	5.6 m (18' 3")	6.7 m (21' 10")	-266.3 cm (-104 ²⁷ / ₃₂ ")	37.7 cm (14 ²⁷ / ₃₂ ")	±128.0cm (50 ¹³ / ₃₂ ")
120" (305 cm)	244 cm (96")	183 cm (72")	4.4 m (14' 7")	5.3 m (17' 6")	-213.0 cm (-83 ⁷ / ₈ ")	30.2 cm (11 ⁷ / ₈ ")	±102.4cm (40 ⁵ / ₁₆ ")
100" (254 cm)	203 cm (80")	152 cm (60")	3.7 m (12' 2")	4.4 m (14' 7")	-177.5 cm (-69 ⁵⁷ / ₆₄ ")	25.1 cm (9 ²⁹ / ₃₂ ")	±85.3cm (33 ¹⁹ / ₃₂ ")
80" (203 cm)	163 cm (64")	122 cm (48")	3.0 m (9' 9")	3.6 m (11' 8")	-142.0 cm (-55 ²⁹ / ₃₂ ")	20.1 cm (7 ⁵⁹ / ₆₄ ")	±68.3cm (26 ⁷ / ₈ ")
70" (178 cm)	142 cm (56")	107 cm (42")	2.6 m (8' 6")	3.1 m (10' 2")	-124.3 cm (-48 ⁵⁹ / ₆₄ ")	17.6 cm (6 ⁵⁹ / ₆₄ ")	±59.7cm (23 33/64")
60" (152 cm)	122 cm (48")	91 cm (36")	2.2 m (7' 4")	2.7 m (8' 9")	-106.5 cm (-41 ¹⁵ / ₁₆ ")	15.1 cm (5 ¹⁵ / ₁₆ ")	±51.2cm (20 ⁵ / ₃₂ ")

Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in) H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.03706X L2 (m) = 0.04438X

H1 (cm) = -1.77527χ

H2 (cm) = 0.25143%

W (cm) = ± 0.85344 % [Feet/inches]

L1 (ft) = 0.03706 % / 0.3048

L2 (ft) = 0.04438 % / 0.3048

H1 (in) = -1.77527% / 2.54 H2 (in) = 0.25143% / 2.54

 $W(in)' = \pm 0.85344 \% / 2.54$



- Allow a margin of error in the value in the diagrams above.
- · When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Screen Size and Projection Distance

Tele-zoom Lens (AN-P23EZ)

F2.5, f=31.9-42.5 mm

16:10 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the lens center to the bottom of the image [H]		Distance from the lens center to the center of	
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
230" (584 cm)	495 cm (195")	310 cm (122")	11.3 m (37' 1")	15.1 m (49' 5")	-360.7 cm (-142")	51.1 cm (20 ⁷ / ₆₄ ")	±173.4cm (68 ¹ / ₄ ")
200" (508 cm)	431 cm (170")	269 cm (106")	9.8 m (32' 3")	13.1 m (43' 0")	-313.6 cm (-123 ¹⁵ / ₃₂ ")	44.4 cm (17 31/64")	±150.8cm (59 ²³ / ₆₄ ")
150" (381 cm)	323 cm (127")	202 cm (79")	7.4 m (24' 2")	9.8 m (32' 3")	-235.2 cm (-92 39/64")	33.3 cm (13 ⁷ / ₆₄ ")	±113.1cm (44 33/64")
120" (305 cm)	258 cm (102")	162 cm (64")	5.9 m (19' 4")	7.9 m (25' 9")	-188.2 cm (-74 ⁵ / ₆₄ ")	26.7 cm (10 ¹ / ₂ ")	±90.5cm (35 39/64")
100" (254 cm)	215 cm (85")	135 cm (53")	4.9 m (16' 1")	6.5 m (21' 6")	-156.8 cm (-61 ⁴⁷ / ₆₄ ")	22.2 cm (8 ³ / ₄ ")	±75.4cm (29 43/64")
80" (203 cm)	172 cm (68")	108 cm (42")	3.9 m (12' 11")	5.2 m (17' 2")	-125.5 cm (-49 ²⁵ / ₆₄ ")	17.8 cm (7")	±60.3cm (23 ⁴⁷ / ₆₄ ")
60" (152 cm)	129 cm (51")	81 cm (32")	2.9 m (9' 8")	3.9 m (12' 11")	-94.1 cm (-37 3/64")	13.3 cm (5 ¹ / ₄ ")	±45.2cm (17 13/16")

Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in) H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.0491X L2 (m) = 0.06547X

H1 (cm) = -1.56815 χ

H2 (cm) = 0.2221%W (cm) = $\pm 0.75379\%$

[Feet/inches]

L1 (ft) = 0.0491 % / 0.3048

L2 (ft) = 0.06547% / 0.3048 H1 (in) = -1.56815% / 2.54 H2 (in) = 0.2221% / 2.54

 $W(in)' = \pm 0.75379 \% / 2.54$

4:3 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the the bottom of		Distance from the lens center to the center of	
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1]	Upper [H2]	the image [W]
200" (508 cm)	406 cm (160")	305 cm (120")	11.1 m (36' 6")	14.8 m (48' 8")	-355.1 cm (-139 ²⁵ / ₃₂ ")	50.3 cm (19 51/64")	±170.7cm (67 ¹³ / ₆₄ ")
150" (381 cm)	305 cm (120")	229 cm (90")	8.3 m (27' 4")	11.1 m (36' 6")	-266.3 cm (-104 ²⁷ / ₃₂ ")	37.7 cm (14 ²⁷ / ₃₂ ")	±128.0cm (50 ¹³ / ₃₂ ")
120" (305 cm)	244 cm (96")	183 cm (72")	6.7 m (21' 11")	8.9 m (29' 2")	-213.0 cm (-83 ⁷ /8")	30.2 cm (11 ⁷ / ₈ ")	±102.4cm (40 ⁵ / ₁₆ ")
100" (254 cm)	203 cm (80")	152 cm (60")	5.6 m (18' 3")	7.4 m (24' 4")	-177.5 cm (-69 ⁵⁷ / ₆₄ ")	25.1 cm (9 ²⁹ / ₃₂ ")	±85.3cm (33 ¹⁹ / ₃₂ ")
80" (203 cm)	163 cm (64")	122 cm (48")	4.4 m (14' 7")	5.9 m (19' 5")	-142.0 cm (-55 ²⁹ / ₃₂ ")	20.1 cm (7 ⁵⁹ / ₆₄ ")	±68.3cm (26 ⁷ / ₈ ")
70" (178 cm)	142 cm (56")	107 cm (42")	3.9 m (12' 9")	5.2 m (17' 0")	-124.3 cm (-48 ⁵⁹ / ₆₄ ")	17.6 cm (6 ⁵⁹ / ₆₄ ")	±59.7cm (23 33/64")
60" (152 cm)	122 cm (48")	91 cm (36")	3.3 m (10' 11")	4.4 m (14' 7")	-106.5 cm (-41 ¹⁵ / ₁₆ ")	15.1 cm (5 ¹⁵ / ₁₆ ")	±51.2cm (20 ⁵ / ₃₂ ")

Picture size (diag.) (in/cm)

x: Picture size (diag.) (in/cm)L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in) H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.05559X

L2 (m) = 0.07412X

H1 (cm) = -1.77527X H2 (cm) = 0.25143X

 $W (cm) = \pm 0.85344 \chi$

[Feet/inches] L1 (ft) = 0.05559X / 0.3048

 $L2 (ft) = 0.07412 \chi / 0.3048$

H1 (in) = -1.77527\(\chi \) 2.54 H2 (in) = 0.25143\(\chi \) 2.54

 $W(in) = \pm 0.85344 \% / 2.54$

🖎 Note

- Allow a margin of error in the value in the diagrams above.
- · When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Tele-zoom Lens (AN-P30EZ)

F2.5, f=40.8-62.8 mm

16:10 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the the bottom of		Distance from the lens center to the center of	
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	m [L2] Lower [H1] Upper [H2]		the image [W]
230" (584 cm)	495 cm (195")	310 cm (122")	15.1 m (49' 5")	22.6 m (74' 1")	-360.7 cm (-142")	51.1 cm (20 ⁷ / ₆₄ ")	±173.4cm (68 ¹ / ₄ ")
200" (508 cm)	431 cm (170")	269 cm (106")	13.1 m (43' 0")	19.6 m (64' 5")	-313.6 cm (-123 ¹⁵ / ₃₂ ")	44.4 cm (17 31/64")	±150.8cm (59 ²³ / ₆₄ ")
150" (381 cm)	323 cm (127")	202 cm (79")	9.8 m (32' 3")	14.7 m (48' 4")	-235.2 cm (-92 39/64")	33.3 cm (13 ⁷ / ₆₄ ")	±113.1cm (44 33/64")
120" (305 cm)	258 cm (102")	162 cm (64")	7.9 m (25' 9")	11.8 m (38' 8")	-188.2 cm (-74 ⁵ / ₆₄ ")	26.7 cm (10 ¹ / ₂ ")	±90.5cm (35 39/64")
100" (254 cm)	215 cm (85")	135 cm (53")	6.5 m (21' 6")	9.8 m (32' 3")	-156.8 cm (-61 ⁴⁷ / ₆₄ ")	22.2 cm (8 ³ / ₄ ")	±75.4cm (29 43/64")
80" (203 cm)	172 cm (68")	108 cm (42")	5.2 m (17' 2")	7.9 m (25' 9")	-125.5 cm (-49 ²⁵ / ₆₄ ")	17.8 cm (7")	±60.3cm (23 ⁴⁷ / ₆₄ ")
60" (152 cm)	129 cm (51")	81 cm (32")	3.9 m (12' 11")	5.9 m (19' 4")	-94.1 cm (-37 3/64")	13.3 cm (5 ¹ / ₄ ")	±45.2cm (17 13/16")

Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in)

H2: Upper distance from the lens center to the bottom of the image (cm/in) W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.06547X L2 (m) = 0.09821X

H1 (cm) = -1.56815X H2 (cm) = 0.2221X W (cm) = ± 0.75379 X

[Feet/inches]

L1 (ft) = 0.06547X / 0.3048 $L2 (ft) = 0.09821 \chi / 0.3048$

H1 (in) = -1.56815 % / 2.54

H2 (in) = $0.2221\chi / 2.54$

 $W(in)' = \pm 0.75379 \chi / 2.54$

4:3 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the the bottom of		Distance from the lens center to the center of	
Diag. [χ]	Width	Height	Minimum [L1]	Minimum [L1] Maximum [L2] Lower [H1] Upper		Upper [H2]	the image [W]
200" (508 cm)	406 cm (160")	305 cm (120")	14.8 m (48' 8")	22.2 m (72' 11")	-355.1 cm (-139 ²⁵ / ₃₂ ")	50.3 cm (19 51/64")	±170.7cm (67 13/64")
150" (381 cm)	305 cm (120")	229 cm (90")	11.1 m (36' 6")	16.7 m (54' 9")	-266.3 cm (-104 ²⁷ / ₃₂ ")	37.7 cm (14 ²⁷ / ₃₂ ")	±128.0cm (50 ¹³ / ₃₂ ")
120" (305 cm)	244 cm (96")	183 cm (72")	8.9 m (29' 2")	13.3 m (43' 9")	-213.0 cm (-83 ⁷ / ₈ ")	30.2 cm (11 ⁷ / ₈ ")	±102.4cm (40 ⁵ / ₁₆ ")
100" (254 cm)	203 cm (80")	152 cm (60")	7.4 m (24' 4")	11.1 m (36' 6")	-177.5 cm (-69 ⁵⁷ / ₆₄ ")	25.1 cm (9 ²⁹ / ₃₂ ")	±85.3cm (33 ¹⁹ / ₃₂ ")
80" (203 cm)	163 cm (64")	122 cm (48")	5.9 m (19' 5")	8.9 m (29' 2")	-142.0 cm (-55 ²⁹ / ₃₂ ")	20.1 cm (7 ⁵⁹ / ₆₄ ")	±68.3cm (26 ⁷ / ₈ ")
70" (178 cm)	142 cm (56")	107 cm (42")	5.2 m (17' 0")	7.8 m (25' 6")	-124.3 cm (-48 ⁵⁹ / ₆₄ ")	17.6 cm (6 ⁵⁹ / ₆₄ ")	±59.7cm (23 ³³ / ₆₄ ")
60" (152 cm)	122 cm (48")	91 cm (36")	4.4 m (14' 7")	6.7 m (21' 11")	-106.5 cm (-41 ¹⁵ / ₁₆ ")	15.1 cm (5 ¹⁵ / ₁₆ ")	±51.2cm (20 ⁵ / ₃₂ ")

χ: Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in) H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.07412X L2 (m) = 0.11118X H1 (cm) = -1.77527X

H2 (cm) = 0.25143X $W (cm) = \pm 0.85344 \%$

[Feet/inches]

L1 (ft) = 0.07412 % / 0.3048

H1 (in) = 0.11118% / 0.3048 H1 (in) = -1.77527% / 2.54 H2 (in) = 0.25143% / 2.54 W (in) = ±0.85344% / 2.54



- Allow a margin of error in the value in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Screen Size and Projection Distance

Tele-zoom Lens (AN-P45EZ)

F2.5, f=62.1-97.8 mm

16:10 Signal Input (Normal Mode)

Picture (Screen) size		Projection	Projection distance [L]		ne lens center to the image [H]	Distance from the lens center to the center of		
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	Lower [H1] Upper [H2]		the image [W]	
230" (584 cm)	495 cm (195")	310 cm (122")	22.6 m (74' 1")	35.1 m (115' 3")	-360.7 cm (-142")	51.1 cm (20 ⁷ / ₆₄ ")	±173.4cm (68 ¹ / ₄ ")	
200" (508 cm)	431 cm (170")	269 cm (106")	19.6 m (64' 5")	30.5 m (100' 2")	-313.6 cm (-123 15/32")	44.4 cm (17 31/64")	±150.8cm (59 ²³ / ₆₄ ")	
150" (381 cm)	323 cm (127")	202 cm (79")	14.7 m (48' 4")	22.9 m (75' 2")	-235.2 cm (-92 ³⁹ / ₆₄ ") 33.3 cm (13 ⁷ / ₆₄ ")		±113.1cm (44 33/64")	
120" (305 cm)	258 cm (102")	162 cm (64")	11.8 m (38' 8")	18.3 m (60' 1")	-188.2 cm (-74 ⁵ / ₆₄ ")	26.7 cm (10 ¹ / ₂ ")	±90.5cm (35 39/64")	
100" (254 cm)	215 cm (85")	135 cm (53")	9.8 m (32' 3")	15.3 m (50' 1")	-156.8 cm (-61 ⁴⁷ / ₆₄ ")	22.2 cm (8 ³ / ₄ ")	±75.4cm (29 43/64")	
80" (203 cm)	172 cm (68")	108 cm (42")	7.9 m (25' 9")	12.2 m (40' 1")	-125.5 cm (-49 ²⁵ / ₆₄ ")	17.8 cm (7")	±60.3cm (23 ⁴⁷ / ₆₄ ")	
60" (152 cm)	129 cm (51")	81 cm (32")	5.9 m (19' 4")	9.2 m (30' 1")	-94.1 cm (-37 ³ / ₆₄ ")	13.3 cm (5 ¹ / ₄ ")	±45.2cm (17 ¹³ / ₁₆ ")	

Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in) H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm] L1 (m) = 0.09821X L2 (m) = 0.1527X

H1 (cm) = -1.56815%

 $H2 (cm) = 0.2221\chi$

 $W (cm) = \pm 0.75379 \chi$

[Feet/inches] L1 (ft) = 0.09821% / 0.3048 L2 (ft) = 0.1527X / 0.3048

H1 (in) = -1.56815% / 2.54

H2 (in) = $0.2221\chi / 2.54$

 $W(in)' = \pm 0.75379 \chi / 2.54$

4:3 Signal Input (Normal Mode)

Picture (Screen) size		Projection distance [L]		Distance from the the bottom of		Distance from the lens center to the center of	
Diag. [χ]	Width	Height	Minimum [L1] Maximum [L2] Lower [H1] Upp		imum [L1] Maximum [L2] Lower [H1] Upper [H2]		the image [W]
200" (508 cm)	406 cm (160")	305 cm (120")	22.2 m (72' 11")	34.6 m (113' 5")	-355.1 cm (-139 ²⁵ / ₃₂ ")	50.3 cm (19 51/64")	±170.7cm (67 ¹³ / ₆₄ ")
150" (381 cm)	305 cm (120")	229 cm (90")	16.7 m (54' 9")	25.9 m (85' 1")	-266.3 cm (-104 ²⁷ / ₃₂ ")	37.7 cm (14 ²⁷ / ₃₂ ")	±128.0cm (50 ¹³ / ₃₂ ")
120" (305 cm)	244 cm (96")	183 cm (72")	13.3 m (43' 9")	20.7 m (68' 1")	-213.0 cm (-83 ⁷ /8")	30.2 cm (11 ⁷ / ₈ ")	±102.4cm (40 ⁵ / ₁₆ ")
100" (254 cm)	203 cm (80")	152 cm (60")	11.1 m (36' 6")	17.3 m (56' 9")	-177.5 cm (-69 ⁵⁷ / ₆₄ ")	25.1 cm (9 ²⁹ / ₃₂ ")	±85.3cm (33 ¹⁹ / ₃₂ ")
80" (203 cm)	163 cm (64")	122 cm (48")	8.9 m (29' 2")	13.8 m (45' 4")	-142.0 cm (-55 ²⁹ / ₃₂ ")	20.1 cm (7 ⁵⁹ / ₆₄ ")	±68.3cm (26 ⁷ / ₈ ")
70" (178 cm)	142 cm (56")	107 cm (42")	7.8 m (25' 6")	12.1 m (39' 8")	-124.3 cm (-48 ⁵⁹ / ₆₄ ")	17.6 cm (6 ⁵⁹ / ₆₄ ")	±59.7cm (23 33/64")
60" (152 cm)	122 cm (48")	91 cm (36")	6.7 m (21' 11")	10.4 m (34' 0")	-106.5 cm (-41 ¹⁵ / ₁₆ ")	15.1 cm (5 ¹⁵ / ₁₆ ")	±51.2cm (20 5/32")

Picture size (diag.) (in/cm)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H1: Lower distance from the lens center to the bottom of the image (cm/in) H2: Upper distance from the lens center to the bottom of the image (cm/in)

W: Distance from the lens center to the center of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.11118χ

 $L2 (m) = 0.17287 \chi$

H1 (cm) = -1.77527X H2 (cm) = 0.25143X

 $W (cm) = \pm 0.85344 \chi$

[Feet/inches] L1 (ft) = 0.11118X / 0.3048

L2 (ft) = 0.17187 / 0.3048 H1 (in) = -1.77527 / 2.54 H2 (in) = 0.25143 / 2.54

 $W(in) = \pm 0.85344 \% / 2.54$

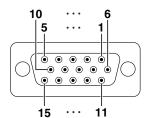


- Allow a margin of error in the value in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.

Connecting Pin Assignments

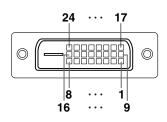
COMPUTER/COMPONENT input and COMPUTER/COMPONENT output Terminals: mini D-sub 15

pin female connector



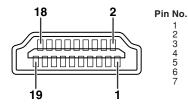
RGB I	nput	Compo	onent Input
1.	Video input (red)	1.	Pr (Cr)
2.	Video input (green/sync on green)	2.	Υ ` ΄
3.	Video input (blue)	3.	Рв (Св)
	Not connected	4.	Not connected
5.	Not connected	5.	Not connected
	Earth (red)	6.	Earth (P _R)
7.	Earth (green/sync on green)		Earth (Y)
8.	Earth (blue)	8.	Earth (P _B)
9.	Not connected		Not connected
10.	GND	10.	Not connected
	Not connected	11.	Not connected
12.	Bi-directional data	12.	Not connected
13.	Horizontal sync signal: TTL level	13.	Not connected
14.	Vertical sync signal: TTL level	14.	Not connected
15.	Data clock	15.	Not connected

DVI-D Terminal: 24 pin connector



Pin No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Name T.M.D.S. Data 2- T.M.D.S. Data 2+ T.M.D.S. Data 2 + T.M.D.S. Data 2 Shield Not connected Not connected DDC Clock DDC Data Not connected T.M.D.S. Data 1- T.M.D.S. Data 1+ T.M.D.S. Data 1 Shield Not connected Not connected +5 V Power Ground	Pin No. 17 18 19 20 21 22 23 24	Name T.M.D.S. Data 0— T.M.D.S. Data 0+ T.M.D.S. Data 0 Shield Not connected Not connected T.M.D.S. Clock Shield T.M.D.S. Clock+ T.M.D.S. Clock+
14 15	+5 V Power Ground		
16	Hot Plug Detect		

HDMI Terminal

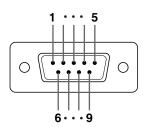


1234567

Name	Pin No.	Name	Pin No.	Name
T.M.D.S data 2+	8	T.M.D.S data 0 shield	14	Reserved
T.M.D.S data 2 shield	d 9	T.M.D.S data 0-	15	SCL
T.M.D.S data 2-	10	T.M.D.S clock+	16	SDA
T.M.D.S data 1+	11	T.M.D.S clock shield	17	DDC/CEC ground
T.M.D.S data 1 shield	d 12	T.M.D.S clock-	18	+5V power
T.M.D.S data 1-	13	CEC	19	Hot plug detection
T.M.D.S data 0+				. 0

Connecting Pin Assignments

RS-232C Terminal: D-sub 9 pin male connector



	0 000	
in No.	Signal	Name
1 2 3 4 5	RD SD	Receive Data Send Data
5	SG	Signal Ground
6 7 8 9	RS CS	Request to Send Clear to Send

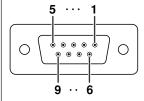
Reference
Not connected
Connected to internal circuit
Connected to internal circuit
Not connected
Connected to internal circuit
Not connected
Connected to CS in internal circuit
Connected to RS in internal circuit
Not connected

I/O

Input

Output

RS-232C Cable recommended connection: D-sub 9-pin female connector



in No.	Signal	Pin No.	Signal
1	CD	1	CD
2	RD	2	RD
2	SD —	3	SD
4	ER ~	4	ER
5	SG —	5	SG
6	DR —	6	DR
7	RS —	7	RS
8	CS —	8	CS
9	CI	9	CI



• Depending on the controlling device used, it may be necessary to connect Pin 4 and Pin 6 on the controlling device (e.g. computer).

Projector Pin No.	Computer Pin No.
4	<u> </u>
5 ———	
6	<u></u> 6

LAN Terminal: LAN (RJ-45)



,	,		
Pin No.	Signal	Pin No.	Signa
1	TX+	5	
2	TX-	6	RX-
3	RX+	7	
4		8	

Wired Remote Control Terminal Specifications

Specifications of wired remote control input

ø3.5 mm minijack

External: GND

• Internal: +3.3V

Function and transmission codes

CONTROL	S	YST	EM (COD	E			D	ATA	COD	E				JUDGEMENT CODE	
ITEM	C1	C2	СЗ	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	
STANDBY	1	0	1	1	0	0	1	1	0	1	0	0	1	1	0	
ON	1	0	1	1	0	0	1	1	0	1	0	1	0	1	0	
ZOOM +	1	0	1	1	0	0	0	0	1	0	1	0	1	1	0	
ZOOM -	1	0	1	1	0	1	0	0	1	0	1	0	1	1	0	
FOCUS +	1	0	1	1	0	0	0	1	0	0	1	1	1	1	0	
FOCUS -	1	0	1	1	0	1	0	1	0	0	1	1	1	1	0	
H&V LENS SHIFT	1	0	1	1	0	0	0	1	1	0	0	0	1	1	0	
KEYSTONE	1	0	1	1	0	1	1	0	1	0	0	0	1	1	0	
MENU	1	0	1	1	0	0	0	1	0	0	0	1	1	1	0	
•	1	0	1	1	0	0	0	1	1	1	0	0	1	1	0	
•	1	0	1	1	0	0	0	0	0	1	0	1	0	1	0	
•	1	0	1	1	0	1	1	1	1	0	0	1	0	1	0	
•	1	0	1	1	0	1	0	1	1	1	0	0	1	1	0	
ENTER	1	0	1	1	0	1	1	1	0	1	0	1	0	1	0	
UNDO	1	0	1	1	0	1	0	0	1	1	0	1	0	1	0	
MAGNIFY +	1	0	1	1	0	1	0	1	1	0	1	1	0	1	0	
MAGNIFY -	1	0	1	1	0	1	0	1	1	0	1	0	1	1	0	

CONTROL	5	SYST	ЕМ	COD	E			D	ATA	COL	ÞΕ				EMENT DE
ITEM	C1	C2	СЗ	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
FREEZE	1	0	1	1	0	1	0	1	1	0	0	0	1	1	0
VOL +	1	0	1	1	0	0	0	1	0	1	0	0	0	1	0
VOL -	1	0	1	1	0	1	0	1	0	1	0	0	0	1	0
BREAK TIMER	1	0	1	1	0	0	0	1	0	1	1	0	1	1	0
SHUTTER OPEN	1	0	1	1	0	0	1	0	0	1	0	0	1	1	0
SHUTTER CLOSE	1	0	1	1	0	1	1	0	0	1	0	0	1	1	0
MUTE	1	0	1	1	0	1	1	1	0	1	0	0	0	1	0
AUTO SYNC	1	0	1	1	0	0	1	0	1	1	1	1	1	1	0
PICTURE MODE	1	0	1	1	0	1	0	0	1	1	1	0	0	1	0
RESIZE	1	0	1	1	0	0	1	1	1	1	0	1	0	1	0
COMPUTER1	1	0	1	1	0	1	0	1	0	1	1	0	0	1	0
COMPUTER2	1	0	1	1	0	0	1	1	0	1	1	0	0	1	0
DVI-D	1	0	1	1	0	1	0	1	0	1	1	0	1	1	0
HDMI	1	0	1	1	0	1	0	0	0	1	0	0	1	1	0
VIDEO	1	0	1	1	0	0	1	0	0	1	1	0	0	1	0
S-VIDEO	1	0	1	1	0	1	1	0	0	1	1	0	0	1	0

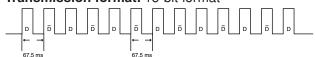
Wired remote control function code

LSB					MS	3B
C1 ← System Code → C5	C6 +	— Data Cod	de 	C13	C14	C15
1 0 1 1 0			. . .	1 -	1	0

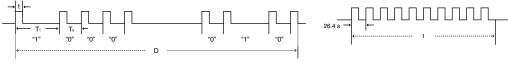
- System codes C1 to C5 are fixed at "10110".
- Codes C14 and C15 are reverse confirmation bits, with "10" indicating "Front" and "01" indicating "Rear".

Sharp remote control signal format

Transmission format: 15-bit format



Wave form of output signal: Output using pulse position modulation



- $t = 264 \mu s$
- Pulse carrier frequency = 455/12 kHz
- $T_0 = 1.05 \text{ ms}$
- Duty ratio = 1:1

• $T_1 = 2.10 \text{ ms}$

Transmission control code

		_
Example	of Reverse	D to D

D	C1	C2	СЗ	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
	1	0	1	1	0	1	0	0	0	0	0	0	0	1	0
Đ	C1	C2	СЗ	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15
	1	0	1	1	0	0	1	1	1	1	1	1	1	0	1

Computer control

A computer can be used to control the projector by connecting an RS-232C serial control cable (cross type, commercially available) to the projector. (See page 27 of the projector's operation manual for connection.)

Communication conditions

Set the serial port settings of the computer to match that of the table.

Signal format: Conforms to RS-232C standard.

Baud rate*: 9,600 bps / 38,400 bps / 115,200 bps

Stop bit: 1 bit

Pata length: 8 bits

Flow control: None

Basic format

Commands from the computer are sent in the following order: command, parameter, and return code. After the projector processes the command from the computer, it sends a response code to the computer.

Command format				
C1 C2	C3 C4 P1	P2 P3	P4	Return code (0DH)
	$\overline{}$			
	ommand 4-dig	jit F	arame	eter 4-digit
Response code format				
Normal response			Pro	oblem response (communication error or incorrect command)
O K	Return coo	de (0DH)		E R R R Return code (0DH)
sponse code for the property of the special command	evious one is1", "TLPS1", "TLTM1" eceives the sp lay will not dis ff timer will no ds are availab periodically se	received1", "T2", "T pecial compapear. of be reset	LPS _ LTL _ mands ication	the projector, send each of them only after the re2", "TPOW1", "TLPN1", "TLTT1",1", "TLTL2", "TNAM1", "MNRD1", s shown above: Institute that require continuous polling. Inds other than these special commands in STANDBY

Note

- When controlling the projector using the RS-232C commands, you cannot confirm the projector setting values from the computer. To confirm each setting value, send the display command for each menu (e.g. RARE _ _ _ 0), and then refer to the on-screen display. When using the setting/adjustment commands other than the menu display commands, the settings/adjustments are executed without the on-screen display.
- If an underbar () appears in the parameter column, enter a space.
- If an asterisk (*) appears in the parameter column, enter a value in the range indicated in brackets under Control Contents.

PJLink™ Compliant:

This product conforms with the PJLink standard Class 1 and all Class 1 commands are implemented.

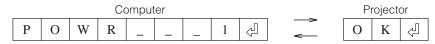
This product confirms with the PJLink standard specification version 1.00.

For additional information, visit "http://pjlink.jbmia.or.jp/english/".

^{*}Set the projector's baud rate to the same rate as used by the computer.

Commands

Example: When turning on the projector, make the following setting.



										RETURN	
	CONTROL CONTENTS	(COI	ИΜΑ	ND	P	ARA	MET	TER	Power ON	Standby mode (or 40-second startup time
Power	On		2		/ R	T		-	1	OK	OK or ERR
	Off	F) W	/ R			ļ	0	OK or ERR	OK
	Status		C		/ R		?	?		1	0
Projector Condition		Т	. 4	В	N	-	- -	-	1	0: Normal, 1: Temp High	0: Normal, 1: Temp High
										8: Lamp Life 5% or less	2: Fan Error, 4: Cover Open
										16: Lamp Burn-out	8: Lamp Life 5% or less
										32: Lamp Ignition Failure	16: Lamp Burn-out
											32: Lamp Ignition Failure
	1		+	+-	+-	+	╀	╀	<u>. </u>		64: Temp Abnormally High
amp	Lamp 1 Status Lamp 2 Status			. P			+			0:Off, 1:On, 2:Retry, 3:Waiting, 4:Lamp Error	0:Off, 4:Lamp Error
	Lamp Power Status			. P	S	-	+	+	2	0:Off, 1:On, 2:Retry, 3:Waiting, 4:Lamp Error 1:On, 2:Cooling	0:Off, 4:Lamp Error 0:Off
	Quantity	- 1					┾	╄	1		0:011
	Lamp 1 Usage Time(Hour)				N		+-	╀	1	2	
	Lamp 2 Usage Time(Hour)	- '			T		┾	╄	2	0 – 9999 (Integer) 0 – 9999 (Integer)	
	Lamp 1 Usage Time(Minute)				M		+-	₽	1	0, 15, 30, 45	
	Lamp 2 Usage Time(Minute)				M		┾	┾	2	0, 15, 30, 45	
	Lamp 1 Life(Percentage)				L		+	1-	1	0% – 100% (Integer)	
	Lamp 2 Life(Percentage)	- '			냔		+	+	2	0% – 100% (integer) 0% – 100% (Integer)	
	Lamp 1 Lamp Timer Reset *1				E		1-	1-		ERR	OK or ERR
	Lamp 2 Lamp Timer Reset *1	L	٠,	R						ERR	OK OF ERR
Name	Model Name Check			I A			10	10	1	XGP560W	1 OK GI EITH
T ame	Model Name Check		1 1		D		+	+	1	XG-P560W	
	Serial No. Check *2		i i		D		+-	╀	1	Serial No.	
	Projector Name Setting 1	F					*	*	*	OK or ERR	
	(First 4 characters) *3	'	١,	' '`	Ι'					OK GI ETITI	
	Projector Name Setting 2	F	١,	N	2	*	*	*	*	OK or ERR	
	(Middle 4 characters) *3	'	١,	' '`	-					OK GI ETITI	
	Projector Name Setting 3	F	, ,	l N	3	*	*	*	*	OK or ERR	
	(Last 4 characters) *3	'	١,	' '`	"					OK GI ETITI	
	Projector Name Check	F	,	N	0	$^{+}$	+	+	1	Projector Name	
nput Change	COMPUTER1	T i			В		+	╁	1	OK or ERR	ERR
	COMPUTER2	- li			В		F	╫	2	OK or ERR	ERR
	DVI	T i			В		+	+-	3	OK or ERR	ERR
	HDMI	T i			В		+=	✝	4	OK or ERR	ERR
	VIDEO	- i			D		+	+-	1	OK or ERR	ERR
	S-VIDEO	T i			D		+	+	2	OK or ERR	ERR
	Input RGB Check	T i			В		2	2		1: COMPUTER1, 2: COMPUTER2, 3: DVI, 4: HDMI	ERR
	Input Video Check	T i			D						ERR
	Input Mode Check									1: RGB, 2: Video	ERR
	Input Check	T i			K					1:COMPUTER1, 2:COMPUTER2	ERR
	'		'		1.		1	1	ľ	3: DVI, 4: HDMI, 5: VIDEO, 6: S-VIDEO	
ens Focus	-255 - +255	1	. 1	I F	O	*	*	*	*	OK or ERR	ERR
ens Zoom	-255 - +255	L		ΙZ			*	*	*	OK or ERR	ERR
ertical Lens Shift	-800 - +800	L		I S			*	*	*	OK or ERR	ERR
	-800 - +800	L			D			*		OK or ERR	ERR
Horizontal Lens Shift	-800 - +800	ī					*	*	*	OK or ERR	ERR
ens Shift Center		ī			D		-	1_	1	OK or ERR	ERR
ens Shutter	Close	ī					1-	1-	1	OK or ERR	ERR
	Open	ī					-	[_	0	OK or ERR	ERR
/ertical Keystone	-80 - +80	K				-	*	*	*	OK or ERR	ERR
	-80 - +80	K		Y	V	-	*	*	*	OK or ERR	ERR
Horizontal Keystone	-60 - +60	K			Н		*	*		OK or ERR	ERR
mage Resizing	-30 - +30			1 R	S		*	*	*	OK or ERR	ERR
/olume	Volume(0 - 60)	V	1 0				T_	*	*	OK or ERR	ERR
	Volume up/down(-10 - +10)	٧	/ C	U	D		1*	*	*	OK or ERR	ERR
Nute	On	N			E	T	I	Ī-	1	OK or ERR	ERR
	Off	N	1 (L	L	L	0	OK or ERR	ERR
reeze	On	F	F	RΕ			I		1	OK or ERR	ERR
	Off	F	F	R E			L	Ŀ	0	OK or ERR	ERR
Auto Sync	Start	Д				F	L	E	1	OK or ERR	ERR
Resize	COMPUTER1 Normal	F	1 /	S	R		T	Γ	1	OK or ERR	ERR
	Stretch	F		S	R		1-	1-	2	OK or ERR	ERR
	Dot By Dot	F		S	R		Ī-	L	3	OK or ERR	ERR
	Smart Stretch	F		S	R		1-	L	4	OK or ERR	ERR
			rtń.	S	15		·†···	1			ERR
	Full	F	{ <i>F</i>	1 0	R	11-	- 1	1-	5	OK or ERR	Enn
	Area Zoom V-Stretch	F			R		-	1	0	OK or ERR	ERR

											RETURN	
	CONTROL CONT	ENTS	CC	MMC	MAN	ND	PA	ARA	ME	TER	Power ON	Standby mode (or 40-second startup time)
Resize	COMPUTER2	Normal	R	В	S	R	1-	T-	T-	1	OK or ERR	ERR
		Stretch	R		S	R	Ī-	-	1-	2	OK or ERR	ERR
		Dot By Dot		В	S	R		-	ļ-	3	OK or ERR	ERR
		Smart Stretch	R	В	S	R		ļ	ļ	4	OK or ERR	ERR
		Full Area Zoom	R R	B B	S	R		ļ=	-	0	OK or ERR OK or ERR	ERR ERR
		V-Stretch	R	В	S	R		 	1	1	OK or ERR	ERR
	DVI	Normal	R	С	S	R		t	Ė	1	OK or ERR	ERR
		Stretch	R	С	S	R		1	1	2	OK or ERR	ERR
		Dot By Dot	R	С	S	R		I	I-	3	OK or ERR	ERR
		Smart Stretch		С	S	R		ļ	ļ	4	OK or ERR	ERR
		Full Area Zoom	R	C	S	R		ļ	ļ-	5	OK or ERR OK or ERR	ERR ERR
		V-Stretch	R	С	S	R		 		1		ERR
	HDMI	Normal	R	D	S	R		t	Ľ	1	OK or ERR	ERR
		Stretch	R	D	S	R		1::	1-	2	OK or ERR	ERR
		Dot By Dot	R	D	S	R	<u></u>	I	1-	3	OK or ERR	ERR
		Smart Stretch	R	D	S	R		Į	-	4	OK or ERR	ERR
		Full	R	D	S	R		ļ	ļ-	5	OK or ERR	ERR
		Area Zoom V-Stretch	R R	D	S	R		ļ	11	0	OK or ERR OK or ERR	ERR ERR
	VIDEO	Normal	R	D A	S	V	H	⊨	11	1	OK of ERR	ERR
		Stretch	R	A	S	V	+=	 	1=	2	OK of ERR	ERR
		Smart Stretch	R	Α	S	٧	1=	† -	1=	4	OK or ERR	ERR
		Area Zoom	R	Α	S S	٧	1-	1		0	OK or ERR	ERR
		V-Stretch	R	Α	S	٧	1-	1-	1	1		ERR
	S-VIDEO	Normal	R	В	S	٧		ļ	ļ	1	OK or ERR	ERR
		Stretch Smort Stretch	R	В	S	V		ļ	ļ=.	2	OK or ERR	ERR
		Smart Stretch Area Zoom	R R	B B	S	V		ł=	-	0	OK or ERR	ERR ERR
		V-Stretch	R	 В	S	V		 	1		OK or ERR	ERR
COMPUTER1 input	Picture Mode	Standard	R	A	Р	S		E		0	OK or ERR	ERR
		Presentation	R	Α	Р	S		†	1		OK or ERR	ERR
		Movie	R	Α	Р	S	<u>l</u>	I		2	OK or ERR	ERR
		Custom	R	Α	Р	S	-	-		3	OK or ERR	ERR
	Contrast	-30 - +30	R	Α	Р	1	-	*	*	_	OK or ERR	ERR
	Bright	-30 - +30 -30 - +30	R	A	В			*		*	OK or ERR OK or ERR	ERR
	Color	-30 - +30	R	A	C	0	+	*	*	*	OK of ERR	ERR ERR
	Red	-30 - +30		A	R		t	*	*	*	OK or ERR	ERR
	Green	-30 - +30		Α	G			*	*	*	OK or ERR	ERR
	Blue	-30 - +30	R	Α	В	Е		*	*	*	OK or ERR	ERR
	Sharp	-30 - +30		Α	S			*	*	*	OK or ERR	ERR
	CLR Temp *4	OD December		Α	С		_	ľ	ľ	*	OK or ERR	ERR
	Progressive	2D Progressive 3D Progressive	R R	A	<u>!</u>	P P		∤	ļ	0	OK or ERR OK or ERR	ERR ERR
		Film		Α	i	P		┼┈	1=	2	OK or ERR	ERR
	DNR	Off	R	Α	N	R		†=	Ī	0	OK or ERR	ERR
		Level 1	R	Α	N	R		†	-	1	OK or ERR	ERR
		Level 2	R	Α	N	R		I	I	2	OK or ERR	ERR
		Level 3	R	Α	N	R		-	-	3	OK or ERR	ERR
	Adjustment Reset		R	A	R		-	₽	₽	1	OK or ERR	ERR
	Signal Type	Auto RGB		A A	S	1	 -	 	-	1	OK or ERR OK or ERR	ERR ERR
		Component		A	S	i i	1=	†==	1=	2	OK or ERR	ERR
	Display (Status di			Α	R		İ	Ė	İ	0	OK or ERR	ERR
COMPUTER2 input	Picture Mode	Standard	R	В	Р	S		I		0	OK or ERR	ERR
		Presentation	R	В	Р	S		ļ	1		OK or ERR	ERR
		Movie		В	P	S		ļ		2	OK or ERR	ERR
	Contrast	-30 - +30	R	В	P	S	+	-	1		OK or ERR OK or ERR	ERR ERR
	Bright	-30 - +30	R	В	В		+	*	*	*	OK or ERR	ERR
	Color	-30 - +30	R			0		*	*	*	OK of ERR	ERR
	Tint	-30 - +30		В		Ī		*	*	*	OK or ERR	ERR
	Red	-30 - +30	R	В	R	D	L	*	*	*	OK or ERR	ERR
	Green	-30 - +30	R	В	G	N	1-	*	*	*	OK or ERR	ERR
	Blue	-30 - +30		В				*	*	*	OK or ERR	ERR
	Sharp	-30 - +30				H		*	1.	*	OK or ERR	ERR
	CLR Temp *4 Progressive	2D Progressive		B B				Ť	Ť	0	OK or ERR OK or ERR	ERR ERR
	i iogressive	3D Progressive	R		<u>-</u>	P		+=	+-	1	OK or ERR	ERR
		Film	R		i	P	1=	t=	1=	2	OK or ERR	ERR
	DNR	Off	R	В	N			Ŀ	I-	0	OK or ERR	ERR
		Level 1	R	В	Ν	R	1-	<u>I</u>	L	1	OK or ERR	ERR
		Level 2	R	В	Ν	R	1-	[-	[=	2	OK or ERR	ERR
		Level 3	R	В	N			1-	1-	3	OK or ERR	ERR
	Adjustment Reset		R	В	R	E		+	+	1	OK or ERR	ERR
	Signal Type	Auto		В	S			-	+=	0	OK or ERR	ERR
	1	RGB	1.	B B	S	1	ļ=	ļ	ļ=	2	OK or ERR OK or ERR	ERR
		Component										ERR

		CONTROL CONTENTS									RETURN	
	CONTROL CONT	ENTS	C	ON	ЛMA	ANE	P	PARA	AME	TER	Power ON	Standby mode (or 40-second startup time
OVI input	Picture Mode	Standard	R	С) F	- T	S -	T	. 1	0	OK or ERR	ERR
		Presentation	R		F		S L	- -	. 1	1	OK or ERR	ERR
		Movie	R	C	F	2 (S -	- [-	. 1		OK or ERR	ERR
		Custom	R				S -	- [-	. 1	3	OK or ERR	ERR
	Contrast	-30 - +30	R			-	<u> </u>	- *	*	*	OK or ERR	ERR
	Bright	-30 - +30	R				₹ -	- *	*	*	OK or ERR	ERR
	Color	-30 - +30	R) -	- *	*	\perp	OK or ERR	ERR
	Tint	-30 - +30 -30 - +30	R				<u> </u>	- -	-	Ť	OK or ERR	ERR
	Red Green	-30 - +30	R) -	- -	*	Ť	OK or ERR OK or ERR	ERR ERR
	Blue	-30 - +30	R				N -		*	*	OK or ERR	ERR
	Sharp	-30 - +30	R				1 .	-	*		OK or ERR	ERR
	CLR Temp *4	00 100	R				T .	- *	*	*	OK or ERR	ERR
	Progressive	2D Progressive	R				- -	+	+	. 0	OK or ERR	ERR
	i rogrocorro	3D Progressive	R				P .		+=	1	OK or ERR	ERR
		Film	R				P .	-	1	2	OK or ERR	ERR
	DNR	Off	R				٦ .	. † .		0	OK or ERR	ERR
		Level 1	R				₹ -	- -	1-	1	OK or ERR	ERR
		Level 2	R				٦		- -	2	OK or ERR	ERR
		Level 3	R				R .	- 1 -		3	OK or ERR	ERR
	Adjustment Rese	t	R				E .	-1-		. 1	OK or ERR	ERR
	Signal Type	D. PC RGB	1	С) (5	3	Ι .	-1-	. _	3	OK or ERR	ERR
		D. PC Component		C) 8	3	Ī.	-[-	.[_	4	OK or ERR	ERR
		D. Video RGB		C) (5	3	I -	- [-	-	5	OK or ERR	ERR
		D. Video Component	1	С) 8	3	i -	-[-	4-	6	OK or ERR	ERR
	Dynamic Range	Auto	Н				2 .	-	.	0	OK or ERR	ERR
		Standard	Н				2 .	-1-	.	1.	OK or ERR	ERR
		Enhanced	Н			1 0			4-	. 2	OK or ERR	ERR
	Color Space	Auto	Н				2.		.	. 0	OK or ERR	ERR
		ITU601	Н.				2 .	-4-	.	1	OK or ERR	ERR
		ITU709	Н				2 -		4-	2	OK or ERR	ERR
	Display (Status d		R				E .	+	+	0	OK or ERR	ERR
DMI input	Picture Mode	Standard	R				S.			0	OK or ERR	ERR
		Presentation	R				S. . .	-4-	. 1		OK or ERR	ERR
		Movie	R				S.			2.	OK or ERR	ERR
		Custom	R				S		. 1	3	OK or ERR	ERR
	Contrast	-30 - +30	R				<u> </u>	- *	*	*	OK or ERR	ERR
	Bright	-30 - +30	R			3 F		- *	*	*	OK or ERR	ERR
	Color	-30 - +30	R) <u>-</u>	- *	*	*	OK or ERR	ERR
	Tint	-30 - +30	R				<u> </u>	- *	*	-	OK or ERR	ERR
	Red	-30 - +30		D		3 [- *	*	\perp	OK or ERR	ERR
	Green	-30 - +30	R			1 6		- *	-	-	OK or ERR	ERR
	Blue	-30 - +30	R			3 E		- *	*	-	OK or ERR	ERR
	Sharp	-30 - +30	R				1	- *	*	*	OK or ERR	ERR
	CLR Temp *4	2D Progressive	R				<u> </u>	+-	+	1	OK or ERR	ERR
	Progressive		R				P -	- -	- -	0	OK or ERR	ERR
		3D Progressive Film	R				P .	-+-		2	OK or ERR	ERR ERR
	DNR	Off	R				3 -	+-	+-	0	OK or ERR	ERR
	Divir	Level 1	R				7. . R _			1	OK or ERR	ERR
		Level 2	R				י ק	-+-	+-	2	OK or ERR	ERR
		Level 3	R				: : -		-	3	OK or ERR	ERR
	Adjustment Rese		R				Ė	+-	+-	1	OK or ERR	ERR
	Signal Type	D. Video Auto	11				1 -	+	2	0	OK or ERR	ERR
	J 3	D. Video RGB					i l	-+-		5	OK or ERR	ERR
		D. Video Component	十十	D			! . .	1	1-	6	OK or ERR	ERR
		D. PC RGB	Ti	D			: -	_†=	1	3	OK or ERR	ERR
		D. PC Component	77	D			! -	1	1-	4	OK or ERR	ERR
	Dynamic Range	Auto	H				5 .	Ť.	Ħ.	0	OK or ERR	ERR
		Standard	Н				5 -	-1-	1=	1	OK or ERR	ERR
		Enhanced	H				5 .	1-	1.	2	OK or ERR	ERR
	Color Space	Auto	Н				0 .	Ţ	T	0	OK or ERR	ERR
		ITU601	Н				5	_]_	1-	1	OK or ERR	ERR
	L	ITU709	Н			0			<u>I</u>	2	OK or ERR	ERR
	Display (Status d		R	D	F			J	I	0	OK or ERR	ERR
IDEO input	Picture Mode	Standard	V	Α	\ F	9 5	S -	T	. 1	0	OK or ERR	ERR
		Presentation	V	Α	F	> (S		. 1	1	OK or ERR	ERR
		Movie	V	Α	F	9	s L	-[-		2	OK or ERR	ERR
		Custom	V	Α	F	9	S -	- [-	. 1	3	OK or ERR	ERR
	Contrast	-30 - +30	V				Ι.	*	*		OK or ERR	ERR
	Bright	-30 - +30	V		E		٦ -	*	*	-	OK or ERR	ERR
	Color	-30 - +30	V		\ C			- *	*	*	OK or ERR	ERR
	Tint	-30 - +30	V		T		Ι.	*	*	*	OK or ERR	ERR
	Red	-30 - +30	V		\ F	3 [) [-	- *	*	*	OK or ERR	ERR
	Green	-30 - +30	V		(- *	*	*	OK or ERR	ERR
	Blue	-30 - +30	V		E			*	*	*	OK or ERR	ERR
	Sharp	-30 - +30	V		1 8			- *	*	*	OK or ERR	ERR
	CLR Temp *4		V		\ C			- *	*	*	OK or ERR	ERR
	Progressive	2D Progressive	V			ı F	P	-1-	1-	0	OK or ERR	ERR
		3D Progressive	V	Α	\ l	ı I	P .	- [1-	[1]	OK or ERR	ERR
		Film	V				P _	-4-	4-	2	OK or ERR	ERR
	DNR	Off	V				3 .	-1-	1-	0	OK or ERR	ERR
		Level 1	V				٦ -	- [-	1-	1	OK or ERR	ERR
		Level 2	V				3 -	- -	1-	2	OK or ERR	ERR
		Level 3	V			N F		-1-	4	3	OK or ERR	ERR
	Adjustment Rese		V			3 E			Ŀ	1	OK or ERR	ERR
	Display (Status d	to also A	V	. 1 -	\ F	. 17	- 17	1.7	1 7	0	OK or ERR	ERR

										Ī	RETURN	
	CONTROL CONT	C	ОМІ	1AM	ND	PA	RAM	ETER	R	Power ON	Standby mode (or 40-second startup time)	
S-VIDEO input	Picture Mode	Standard		В		S			1 0		OK or ERR	ERR
		Presentation Movie	V	B B	P P	S			1 1		OK or ERR OK or ERR	ERR ERR
		Custom	V	В	P				1 3		OK or ERR	ERR
	Contrast	-30 - +30		В				*	* *		OK or ERR	ERR
	Bright	-30 - +30	V	В				*	* *		OK or ERR	ERR
	Color	-30 - +30	٧	В	С	0		*	* *	Ι	OK or ERR	ERR
	Tint	-30 - +30		В				*	* *		OK or ERR	ERR
	Red	-30 - +30	٧	В		D		\perp	* *		OK or ERR	ERR
	Green	-30 - +30		В				*	* *		OK or ERR	ERR
	Blue Sharp	-30 - +30 -30 - +30	V	B B		E		\rightarrow	* *		OK or ERR OK or ERR	ERR ERR
	CLR Temp *4	100 100	v	В				*	* *		OK or ERR	ERR
	Progressive	2D Progressive	V	В	Ī	P		Η.	_ 0		OK or ERR	ERR
		3D Progressive	٧	В	I	Р	_	-1.	_ 1		OK or ERR	ERR
		Film	٧	В	Ι	Р	_		_ 2		OK or ERR	ERR
	DNR	Off		В		R			_ 0		OK or ERR	ERR
		Level 1	V	В.				-1:	_ 1		OK or ERR	ERR
		Level 2	V	В				-4:	_ 2		OK or ERR	ERR
	Adi: otor ant Dane	Level 3	V	В				H	_ 3		OK or ERR	ERR
	Adjustment Reserved Display (Status of		V	B B				H	_ 1		OK or ERR OK or ERR	ERR ERR
C.M.S.	COMPUTER1	Standard	C	S				H	0 0		OK or ERR	ERR
Adjustment	JOSSII OTEITI	sRGB	С	S	R				0 1		OK or ERR	ERR
,		Custom1	C	S	R				1 1		OK or ERR	ERR
		Custom2	C	S	R				1 2		OK or ERR	ERR
		Custom3	С	S	R	Α	_	_	1 3	3	OK or ERR	ERR
	COMPUTER2	Standard	С	S	R	В		- !	0 0)	OK or ERR	ERR
		sRGB	С	S					0 1		OK or ERR	ERR
		Custom1	C	S	R				1 1		OK or ERR	ERR
		Custom2	C	S	R				1 2		OK or ERR	ERR
	DVI	Custom3 Standard	С	S					1 3		OK or ERR OK or ERR	ERR ERR
	DVI	sRGB	C	S	R				0 0		OK or ERR	ERR
		Custom1	C	S	R				1 1		OK or ERR	ERR
		Custom2	C	S	R				1 2		OK or ERR	ERR
		Custom3	C	S	R		+=		1 3		OK or ERR	ERR
	HDMI	Standard	С	S	R				0 0		OK or ERR	ERR
		sRGB	С	S	R				0 1		OK or ERR	ERR
		Custom1	С	S	R	D			1 1		OK or ERR	ERR
		Custom2	С	S					1 2		OK or ERR	ERR
		Custom3	С	S	R				1 3		OK or ERR	ERR
	VIDEO	Standard	С	S	٧				0 0		OK or ERR	ERR
		Custom1	C	S	V	Α			1 1		OK or ERR	ERR
		Custom2	C	S	V	A			1 2		OK or ERR	ERR ERR
	S-VIDEO	Custom3 Standard	С	S	V		+		0 0		OK or ERR	ERR
	3-VIDEO	Custom1	C	S	V	В			1 1		OK or ERR	ERR
		Custom2	С	S	V				1 2		OK or ERR	ERR
		Custom3	С	S	٧				1 3		OK or ERR	ERR
	Target	Red	С	М	Т	G	1-		_ 1		OK or ERR	ERR
		Yellow	С	М	Т			-	_ 2		OK or ERR	ERR
		Green		М	Т				_ 3		OK or ERR	ERR
		Cyan		М				-1:	_ 4		OK or ERR	ERR
		Blue	C	M				- :	_ 5		OK or ERR	ERR
	Lightness	-30 - +30	C	M			H	-	_ 6		OK or ERR OK or ERR	ERR ERR
	Lightness Chroma	-30 - +30 -30 - +30		M	S		H	*	* *		OK or ERR	ERR
	Hue	-30 - +30		M		Н		*	* *		OK or ERR	ERR
	Reset (This Col			М					_ 1		OK or ERR	ERR
	Reset (All Color		С	М	R	Е			_ 2	2	OK or ERR	ERR
Clock	-150 - +150		1	N	С			*	* *	٠	OK or ERR	ERR
Phase	-30 - +30		1	N		Н		_	* *		OK or ERR	ERR
H-position	-150 - +150		1	A				*	* *	-	OK or ERR	ERR
V-position Fine Sync Adjustment	-60 - +60		+	Α		Р		Ĥ	_ 1		OK or ERR OK or ERR	ERR ERR
-ine Sync Adjustment Save Setting	1 – 7		I M	A	M	E		H	- 1 *		OK or ERR	ERR
Select Setting	1 – 7				M			H	-	_	OK or ERR	ERR
RGB Frequency	Horizontal			F		Q		Ħ	_ 1	1	kHz (***. * or ERR)	ERR
Check	Vertical			F		Q			_ 2	2	kHz (***. * or ERR) Hz (***. * or ERR)	ERR
Auto Sync	Off		Α	Α	D	J			_ 0)	OK or ERR	ERR
	Normal		Α	Α	D			-	_ 1	L.[OK or ERR	ERR
A 1: 0 :	High Speed		A	Α				- -	_ 2		OK or ERR	ERR
Auto Sync Display	Background			M			ļ,	:	_ 1		OK or ERR	ERR
Eino Cuno Dianta "	Adjusting Disp.		1	M		S	-	H	_ 0		OK or ERR OK or ERR	ERR
Fine Sync Display (Salance	-30 – +30			A		L		+	- U		OK or ERR	ERR ERR
Freble	-30 - +30					E		*	* *		OK or ERR	ERR
Bass	-30 - +30					A		-	* *		OK or ERR	ERR
Audio Adjustment Res						Ē		H	_ 1		OK or ERR	ERR
Audio Out	FAO			ō		T		Ť.	_ 1		OK or ERR	ERR
	VAO		Α	Ö	U	Т			_ 2		OK or ERR	ERR
Speaker	On		Α	S	Р	K			_ 1		OK or ERR	ERR
	Off		Α	S	Р	K	_		_ 0		OK or ERR	ERR
Audio Display (Status			Α	Α		Ε		LJ.	_ 0		OK or ERR	ERR
Pict in Pict	Bottom Right		Р	1		Р			1 1		OK or ERR	ERR
	Bottom Left		Р	Ţ		Ρ	.[]		1 2		OK or ERR	ERR
	Upper Right		Р	Ţ	N	Р			1 3	3.	OK or ERR	ERR
	Upper Left		Р	Ţ				.	1 4	Ц.	OK or ERR	ERR
	Off		P	1	N	Р	1-	- -	_ 0)	OK or ERR	ERR

										RE	TURN
	CONTROL CONT	ENTS	С	OM	1AM	ND	PAF	RAME	TER	Power ON	Standby mode (or 40-second startup time
Digital Shift	-40 - +40		L	N	D	s		* *	* *	OK or ERR	ERR
OSD Display	Normal		1						. 1.	OK or ERR	ERR
	Level A					<u> </u>		- -	_ 2	OK or ERR OK or ERR	ERR
/ideo System	Level B Auto		I M		D	+·	-		_ 0	OK or ERR	ERR ERR
Selection	PAL		M		S		 -⊦		 - 2	OK or ERR	ERR
3010011011	SECAM			E	s		1=1	=+=	3	OK or ERR	ERR
	NTSC 4.43		М		s			_ [_	4	OK or ERR	ERR
	NTSC 3.58			E	S			-I-	- 5	OK or ERR	ERR
	PAL – M			E.	S	Y	_	_ _	6	OK or ERR	ERR
S	PAL – N		M		S	Y	-	- -	- 7	OK or ERR	ERR
Background Selection	Logo Custom							- -	1	OK or ERR OK or ERR	ERR ERR
Selection	Blue		<u>!</u>	M			 -		. 2	OK or ERR	ERR
	None			M	В.		11		- 3 - 4	OK or ERR	ERR
Startup Image	Logo		i						1	OK or ERR	ERR
Selection	Custom		1			ī	1-1	_ _	_ 2	OK or ERR	ERR
	None		1			I	-	_ -	- 3	OK or ERR	ERR
Eco Mode	On		т.				_		. 1	OK or ERR	ERR
	Off		T				-	- -	_ 0	OK or ERR	ERR
Auto Search	On Off						1-1	-4-	- 1	OK or ERR OK or ERR	ERR
Auto Power Off	Off On		I A	_			H	- -	_ 0	OK or ERR	ERR ERR
auto i owel Oli	Off		A	P P	0		1-+		- 1 - 0	OK or ERR	ERR
amp Mode	Both Lamps		L	P	М		Ħ	_	0	OK or ERR	ERR
	Lamp 1 Only		L	Р	М		1=1	=+=	_ 1	OK or ERR	ERR
	Lamp 2 Only		Ĺ	Р	М	D		_[_	2	OK or ERR	ERR
	Equal Use	-	L	Р	М	D		-[-	_ 3	OK or ERR	ERR
Lens Type	Type 1 (AN-P8E)		L		Τ.		ļļ.	-4-	1.	OK or ERR	ERR
	Type 2 (AN-P12E		L		Τ.	†····		-4-	_ 2	OK or ERR	ERR
	Type 3 (AN-P15E Type 4 (AN-P18E		<u>L</u>		T		 	-4-	3	OK or ERR OK or ERR	ERR ERR
	Type 5 (AN-P23E		L	N	T			-4-	- 4 - 5	OK or ERR	ERR
	Type 6 (AN-P30E			N.		Y	 ⊦		- 6	OK or ERR	ERR
	Type 7 (AN-P45E			N	T	Ÿ	1=+		7	OK or ERR	ERR
PRJ Mode	Reverse	On	Ī	М				_1-	1	OK or ERR	ERR
		Off	T					_[-	_ 0	OK or ERR	ERR
	Invert	On				N	ĻΤ	-[-	_ 1	OK or ERR	ERR
Ptool: Cottin	Normal	Off	1		1	N	H	- -	0	OK or ERR	ERR
Stack Setting	Normal		S		Α.	K	1-1	-4-	0	OK or ERR OK or ERR	ERR ERR
	Master Slave		S				1=+	-4-	_ 1	OK or ERR	ERR
Keylock Level	Normal		K		Y		H	+	- 0	OK or ERR	ERR
	Level A		K		Y	1	t=t	=+=	- 1	OK or ERR	ERR
	Level B		K		Y		1:1	-1-	2	OK or ERR	ERR
Set Inputs	COMPUTER1	ON	R	Α	S	1			- 1	OK or ERR	ERR
	0.0115	OFF	R	Α	S	I	듸	- -	- 0	OK or ERR	ERR
	COMPUTER2	ON	R		S	ļ.!	ļļ	-4-	_ 1	OK or ERR	ERR
	DVI	OFF	R		S		-	- -	- 0	OK or ERR	ERR ERR
	DVI	ON OFF	R				1-1	-4-	0	OK or ERR OK or ERR	ERR
	HDMI	ON		D	S	H	-		- 1	OK or ERR	ERR
		OFF	R			i i	目	= =	- 0	OK or ERR	ERR
	VIDEO	ON	V			Ť		_[1	OK or ERR	ERR
		OFF	V			ĹΙ	Eİ	_[-	0	OK or ERR	ERR
	S-VIDEO	ON	V	В	S	1		_[-	_ 1	OK or ERR	ERR
Con Mada	Name :	OFF	V			1	-	- -	_ 0	OK or ERR	ERR
Fan Mode	Normal		H		M	D	-	- -	- 0	OK or ERR OK or ERR	ERR ERR
Auto Restart	High On		H		M E	D S	H	+	_ 1	OK or ERR	ERR
nuto i icotdi l	Off		A				1=+		- 0	OK or ERR	ERR
Monitor Out	Enable		M				Ħ	Ħ.	- 1	OK or ERR	ERR
· · · · - ·	Disable			0			1:1	-1-	0	OK or ERR	ERR
LAN/RS232C	Enable		L					_	1	OK or ERR	ERR
	Disable		L	N	R	S		_[-	- 0	OK or ERR	*5
_anguage	ENGLISH			E			ļ[-4-	_ 1	OK or ERR	ERR
	DEUTSCH			E			-	- -	2	OK or ERR OK or ERR	ERR ERR
	ESPAÑOL NEDERLANDS			E				= -	- 3	OK or ERR	ERH ERR
	FRANÇAIS			E			-		- 4 - 5	OK or ERR	ERR
	ITALIANO			E			刪	=+=	- 6	OK or ERR	ERR
	SVENSKA			Ē	- L		1=1		7	OK or ERR	ERR
	日本語			E			1-1	_†-	- 8	OK or ERR	ERR
	PORTUGUÊS		М	Е	L	Α		-1-	9	OK or ERR	ERR
	汉语			Ε			[-]	_ 1		OK or ERR	ERR
	한국어			E	L		-[_ 1		OK or ERR	ERR
	Русский		M		Ļ.		-	- 1		OK or ERR	ERR
	عربىي polski			E			 	_ 1		OK or ERR OK or ERR	ERR ERR
	Türkçe		M	E		A	1-1	_ 1 _ 1		OK or ERR	ERR
	iurkçe فارسی			E	L		 ∤	=] - 1		OK or ERR	ERR
				1 =	1 -	1 1	I - I	-11	ם ו		

	CLR Temp		Para	meter		CLR Temp		Para	meter		CLR Temp		Para	meter	
Т	4500K	_	0	4	5	7500K	_	0	7	5	10500K	_	1	0	5
Г	5500K	_	0	5	5	8500K	_	0	8	5					
	6500K	_	0	6	5	9300K	_	0	9	3					

^{*1} Lamp Timer Reset command is available only in standby mode.
*2 Serial No. Check command is used to read out the 12 digits of serial No..
*3 For setting the projector name, send the commands in order of PJN1, PJN2 and PJN3.
*4 Parameters of CLR Temp settings are as follows.

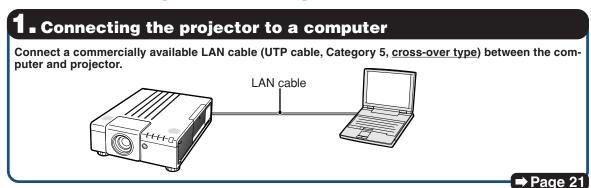
^{*5} Because the RS-232C function stops, the projector send no response code.
*6 See page 65 of the projector's operation manual for the initialized items by using "All Reset".

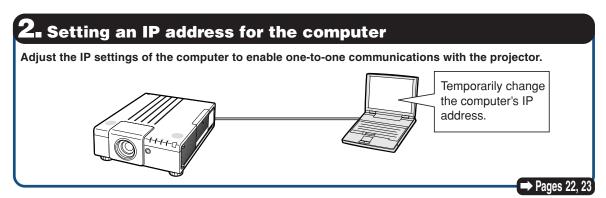
Setting up the Projector Network Environment

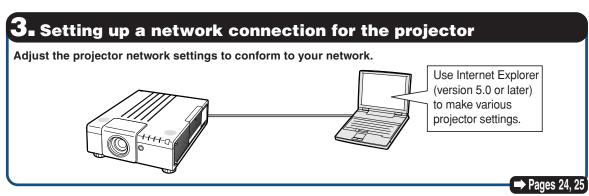
This section describes the basic procedure for using the projector via the network.

If the network is already constructed, the projector's network settings may need to be changed. Please consult your network administrator for assistance with these settings. You can make network settings both on the projector and on the computer. The following procedure is for making settings on the computer.

Network settings on the computer





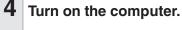


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1. Connecting the Projector to a Computer

Establishing a one-to-one connection from the projector to a computer. Using a commercially available LAN cable (UTP cable, Category 5, cross-over type) you can configure the projector via the computer.

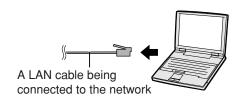
- Disconnect the computer's LAN cable from the existing network.
- 2 Connect a commercially available LAN cable (UTP cable, Category 5, cross-over type) to the projector's LAN terminal and connect the other end of the cable to the computer's LAN terminal.
- Plug the power cord into the AC socket of the projector.

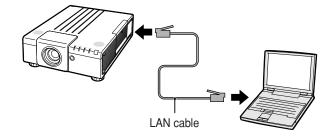


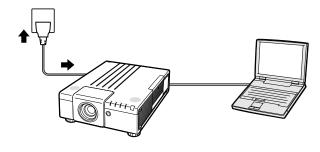


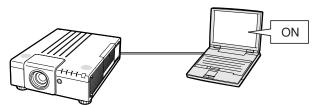
Confirm that the LINK LED on the rear of the projector illuminates. If the LINK LED does not illuminate, check the following:

- The LAN cable is properly connected.
- The power switches of both the projector and the computer are on.









This completes the connection. Now proceed to "2. Setting an IP Address for the Computer".

2. Setting an IP Address for the Computer

The following describes how to make settings in Windows Vista®.

- 1 Log on the network using the administrator's account for the computer.
- Click "start", and click "Control Panel".



- Click "View network status and tasks" of "Network and Internet", and click "View status" in the new window.
 - This manual uses examples to explain the operations in Category View. If you are using Classic View, double-click "Network and Sharing Center".

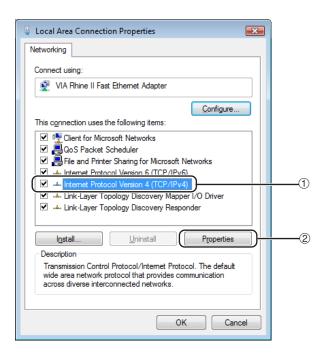






4 Click "Properties".

 When the user account control display is displayed, Click "Continue". Click "Internet Protocol Version 4 (TCP/IPv4)", and click the "Properties" button.

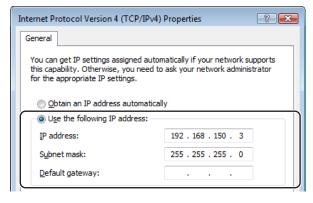


- 6 Confirm or change an IP address for the setup computer.
 - Confirm and note the current IP address, Subnet mask and Default gateway.

Make sure to note the current IP address, Subnet mask and Default gateway as you will be required to reset them later.

② Set temporarily as follows:
IP address: 192.168.150.3
Subnet mask: 255.255.255.0
Default gateway: (Do not input any

values.)





 The factory default settings for the projector are as follows:

DHCP Client : OFF

IP address: 192.168.150.2 Subnet mask: 255.255.255.0 Default gateway: 0.0.0.0

7

After setting, click the "OK" button, and then restart the computer.

After confirming or setting, proceed to "3. Setting up Network Connection for the Projector".

3. Setting up a Network Connection for the Projector

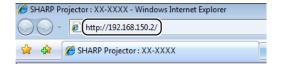
Settings for such items as the projector's IP address and subnet mask are compatible with the existing network.

Set each item on the projector as follows. (See page 64 of the projector's operation manual for setting.)

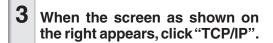
DHCP Client: OFF

IP Address : 192.168.150.002 Subnet Mask : 255.255.255.000

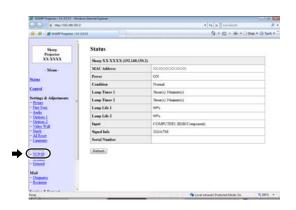
Start Internet Explorer (version 5.0 or later) on the computer, and enter "http://192.168.150.2/" in "Address", and then press the "Enter" key.



- If a user name and a password have not yet been set, just click the "OK" button.
 - If a user name and a password have been set, input the user name and the password, and click the "OK" button.
 - If the user name or password is entered incorrectly three times, an error message will be displayed.
 - When you are using Internet Explorer 7, other setup screen may be displayed.
 In this case, make the proper adjustments for the setup screen.







4 The TCP/IP setting screen appears, ready for network settings for the projector.

Items	Setting example / Remarks
DHCP	Select "ON" or "OFF" to determine
Client	whether to use DHCP Client.
IP Address	You can set this item when "DHCP
	Client" is set to "OFF".
	Factory default setting: 192.168.150.2
	Enter an IP address appropriate
	for the network.
Subnet	You can set this item when "DHCP
Mask	Client" is set to "OFF".
	Factory default setting: 255.255.255.0
	Set the subnet mask to the same
	as that of the computer and
	equipment on the network.
Default	You can set this item when "DHCP
Gateway	Client" is set to "OFF".
	Factory default setting: 0.0.0.0
	* When not in use, set to "0.0.0.0".
DNS	Factory default setting: 0.0.0.0
Server	* When not in use, set to "0.0.0.0".



- · Confirm the existing network's segment (IP address group) to avoid setting an IP address that duplicates the IP addresses of other network equipment or computers. If "192.168.150.2" is not used in the network having an IP address of "192.168.150.XXX", you don't have to change the projector IP address.
- · For details about each setting, consult your network administrator.



Click the "Apply" button.



The set values appear. Confirm that the values are set properly, and then click the "Confirm" button.



DHCP Client	⊙OFF ○ON
IP Address	192 [168 [150]2
Subnet Mask	255 255 255 0
Default Gateway	0 0 0 0 * "0.0.0" means "Using no default gateway."
DNS Server	0 0 0 0 0 *"0.0.0.0" means "Using no DNS server."



DHCP Client	⊕OFF ○ON
IP Address	192 168 150 2
Subnet Mask	255 255 0
Default Gateway	0 0 0 0 **0.0.0.0" means "Using no default gateway."
DNS Server	0 0 0 0 0 **0.0.00" means "Using no DNS server."



Network - TCP/IP

The TCP/IP settings will be changed as below.

DHCP Client : OFF IP Address : 192.168.150.2 Subnet Mask : 255.255.255.0 Default Gateway: 0.0.0.0 DNS Server: 0.0.0.0

Do you want to change the TCP/IP settings?



After you click "Confirm", if you want to continue to operate this projector via the network, please wait for 10 seconds and then re-access to "192.168.150.2".

- · Close the browser.
- This completes the network settings.
- · After setting items, wait for 10 seconds and then re-access.
- Change the IP address of the setting computer back to its original address, which you have noted down in Step 6-1 on page 23, and then connect the computer and the projector to the network.

Controlling the Projector via LAN

After connecting the projector to your network, enter the projector IP address in "Address" on Internet Explorer (version 5.0 or later) using a computer on the network to start a setup screen that will enable control of the projector via the network.

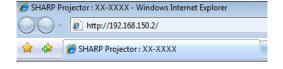
Controlling the Projector Using Internet Explorer

(Version 5.0 or later)

Complete connections to external equipment before starting the operation. (See pages 24-27 of the projector's operation manual.) Complete the AC cord connection. (See page 28 of the projector's operation manual.)



- When connecting the projector to the LAN, use a commercially available LAN cable (UTP cable, Category 5, cross-over type). When connecting the projector to a hub, use a straight-through cable.
- Start Internet Explorer (version 5.0 or later) on the computer.
- 2 Enter "http://" followed by the projector IP address set by the procedure on page 25 followed by "/" in "Address", and then press the "Enter" key.
 - The factory default setting for the projector:
 "DHCP Client" is "OFF" and IP address is
 "192.168.150.2". If you did not change the IP
 address in "3. Setting up a Network Connection for the Projector" (pages 24, 25),
 enter "http://192.168.150.2/".
- A screen for controlling the projector appears, ready for performing various status conditions, control, and settings.





Confirming the Projector Status (Status)

Status

Refresh

Sharp XX-XXXX (192.16	i8.150.2)	
MAC Address	3009000000000000	
Power	ON	
Condition	Normal	
Lamp Timer 1	3hour(s) 30minute(s)	
Lamp Timer 2	3hour(s) 30minute(s)	
Lamp Life 1	99%	
Lamp Life 2	99%	
Input	COMPUTER1 (RGB/Component)	
Signal Info	1024x768	
Serial Number		

On this screen, you can confirm the projector status. You can confirm the following items:

- MAC Address
- Power
- Condition
- Lamp Timer 1
- Lamp Timer 2
- Lamp Life 1
- Lamp Life 2
- Input
- Signal Info
- Serial Number



- If you click the "Refresh" button before the screen is displayed completely, an error message ("Server Busy Error") will be displayed. Wait for a moment and then operate again.
- For details about each item, refer to the projector's operation manual.

Controlling the Projector (Control)

Control

POWER	⊚ STANDBY ● ON
INPUT Select	COMPUTER1 (RGB/Component) ▼
VOLUME	1 •
MUTE	● Off ○ On
SHUTTER	● OPEN © CLOSE

Refresh

On this screen, you can perform projector control. You can control the following items :

- Power
- Input Select
- Volume
- Mute (Audio)
- Shutter



- If you click the "Refresh" button before the screen is displayed completely, an error message ("Server Busy Error") will be displayed.
 Wait for a moment and then operate again.
- You cannot operate this page while the projector is warming up.
- While the projector is in standby mode, you can only control "Power ON".
- For details about each item, refer to the projector's operation manual.

Setting and Adjusting the Projector (Settings & Adjustments)

Example: "Picture" screen display for COMPUTER1 Settings & Adjustments - Picture (COMPUTER1)

Picture Mode	Standard •	Reset
CLR Temp	7500K -	
Progressive	3D Progressive •	
C.M.S. Adjustment	Standard -	
DNR	Off +	
Signal Type	Auto •	

Refresh

On these screens, you can make projector settings or adjustments. You can set or adjust the following items:

- Picture Mode
- CLR Temp
- Progressive C.M.S. Adjustment
- DNR
- Signal Type
- Dynamic Range
- Color Space
- Auto Sync
- Auto Sync Disp
- Audio Out
- Internal Speaker
- Resize
- OSD Display
- Video System (VIDEO/S-VIDEO)
- Background
- Startup Image
- Eco Mode

- Auto Search
- Auto Power Off
- Password
- Lamp Mode
- Lens Type
- Projection Mode
- Keylock Level
- Set Inputs
- Fan Mode
- Auto Restart RS-232C Speed
- Monitor Out (Standby)
- Video Wall (See page 44.)
- Stack Setting (See page 41.)
- All Reset
- OSD Language

Note

- If you click the "Refresh" button before the screen is displayed completely, an error message ("Server Busy Error") will be displayed. Wait for a moment and then operate again.
- You cannot operate this page while the projector is warming up.
- While the projector is in standby mode, you can only control "Power ON".
- · For details about each item, refer to the projector's operation manual.
- For details about the items that will be initialized in "All Reset", refer to the projector's operation manual. (The network setting items will not be initialized.)

Setting the Security (Network – Security)

Network - Security

User Name	(MAX 8 characters)
Password	(MAX 8 characters)

*You will need to re-login with the new user name / new password after you change the user name / password.

Accept IP Address	All IP Addresses From only specific IP addresses Address 1 0 0 0 0
	Address 2 0 0 0 0 0 Address 3 0 0 0 0 0

Apply

Refresh

On this screen, you can make settings relating to security.

Items	Description
User Name	Setting of user name for
	security protection.
Password	Setting of password for
	security protection.
Accept IP	It is possible to set up to three
Address	IP addresses allowing connec-
	tion to the projector.
All IP	No limits are set to IP addresses
Addresses	connecting to the projector.
From only	For security improvement, only an
specific IP	IP address set by "Address 1-3"
addresses	can be connected to the projector.

After clicking the "Apply" button, the set values appear. Confirm that the values are set properly, and then click the "Confirm" button.



- After setting items, wait for 10 seconds and then re-access.
- User Name and Password can be up to 8 characters.
- You can input the characters below : a-z, A-Z, 0-9, -,
- To cancel User Name and Password, enter nothing and then press "Apply" button.

Making General Settings for the Network (Network - General)

Network - General

Projector Name	XX-XXXX (MAX 12 characters)
Auto Logout Time	5 minute(s) (0-65535) * If the set value is made 0, the Auto Logout function is disabled.
Data Port	10002 (1025-65535)
Search Port	5006 (1025-65535)

Apply

Refresh

On this screen, you can make general settings relating to the network.

Items	Description
Projector	Setting the projector name.
Name	
Auto	Setting the time interval in
Logout	which the projector will be
Time	automatically disconnected
	from the network in units of a
	minute (from 1 to 65535
	minutes). If the set value is
	made 0, the Auto Logout
	function is disabled.
Data Port	Setting the TCP port number
	used when exchanging data
	with the projector (from 1025 to
	65535).
Search	Setting the port number used
Port	when searching for the
	projector (from 1025 to 65535).

After clicking the "Apply" button, the set values appear. Confirm that the values are set properly, and then click the "Confirm" button.



- After setting items, wait for 10 seconds and then re-access.
- Projector Name can be up to 12 characters.
- You can input the characters below:
 A-Z, 0-9, -, _, (,), space
 (When "a-z" are input, they are converted to "A-Z" automatically.)

Setting for Sending E-mail when an Error Occurs (Mail - Originator Settings)

Mail - Originator Settings

SMTP Server	(MAX 64 characters)
Originator E- mail Address	(MAX 64 characters)
Originator Name	(MAX 64 characters)

Apply

Refresh

On this screen, you can make settings for sending e-mail to report when the projector has generated an error.

Items	Setting example / Remarks
SMTP	Setting an SMTP server
Server	address for e-mail transmis-
	sion.
	e.g.1:192.168.150.253
	e.g.2 : smtp123.sharp.co.jp
	* When using a domain name,
	make settings for the DNS
	server.
Originator	Setting the projector's e-mail
E-mail	address. The e-mail address set
Address	here becomes Originator E-mail
	Address.
Originator	Setting the sender's name.
Name	The name set here appears in
	the "Originator Name" column
	of the body of the message.

🔕 Note

- SMTP Server, Originator E-mail Address and Originator Name can be up to 64 characters.
- You can input the characters below: SMTP Server and Originator E-mail Address : a-z, A-Z, 0-9, !, #, \$, %, &, *, +, -, /, =, ?, ^, {, |, }, ~, _, ', ., @, `

(You can input "@" only one time for "Originator E-mail Address".)

Originator Name : a-z, A-Z, 0-9, -, _, (,), space

 If the settings of "3. Setting up a Network Connection for the Projector" on pages 24 and 25 are incorrectly set, e-mail will not be sent.

Setting Error Items and Destination Addresses to which E-mail is to be Sent when an Error Occurs (Mail - Recipient Settings)

Mail - Recipient Settings

Recipient Addresses	E-mail Address	Error Mail				
	(MAX 64 characters)	Lamp	Temp	Fan	Cover	
	1					Test
	2					Test
	3					Test
	4					Test
	5					Test

Apply

Refresh

On this screen, you can input e-mail destinations to which error notification (error items) e-mails are sent.

Items	Description
E-mail	Set addresses to which error
Address	notification e-mail is sent. You
	can set up to five addresses.
Error Mail	Error e-mail is sent on the error
(Lamp, Temp,	items checked in their check
Fan, Cover)	boxes.
Test	Send test e-mail. This allows
	you to confirm that the settings
	for e-mail transmission are
	properly set.



- E-mail Address can be up to 64 characters.
- You can input the characters below : a-z, A-Z, 0-9, !, #, \$, %, &, *, +, -, /, =, ?, ^, {, |, }, ~, _, ', ., @, `

(You can input "@" only one time.)

• For details about error items, refer to the projector's operation manual.

Setting Error Items and the URL that are to be Displayed when an Error Occurs (Service & Support -Access URL)

Access URL	townstandard control	c	onditio	n			
	(MAX 64 characters)	Always	Lamp	Temp	Fan	Cover	
	1						Test
	2						Test
	3				0		Test
	4						Test
	5						Test

On this screen, you can make settings of the URL and error items that are to be displayed when the projector has generated an error.

Items	Description
Access	Set the URL that is to be
URL	displayed when an error
	occurs. You can set up to five
	addresses.
Condition	The URL is displayed when an
(Always, Lamp,	error checked in their check
Temp, Fan, Cover)	boxes occurs.
Test	The set URL site is test-
	displayed. This allows you to
	confirm that the URL site is
	properly displayed.

Example of the display when an error occurs

Status

Sharp XX-XXXX (192.1)	68.150.2)	
MAC Address	300000000000000000000000000000000000000	
Power	STANDBY	
Condition	The cooling fan is not operating.	
	Access URL 1 http://www.aharp-world.com/projector/	
Lamp Timer 1	3hour(s) 30minute(s)	
Lamp Timer 2	3hour(s) 30minute(s)	
Lamp Life 1	99%	
Lamp Life 2	9916	
Input		
Signal Info		
Serial Number		

Setting the Projector Using RS-232C or Telnet

Connect the projector to a computer using RS-232C or Telnet, and open the SETUP MENU on the computer to carry out various settings for the projector.

When Connecting Using RS-232C

- 1 Launch general purpose terminal emulator.
- 2 Input settings for the RS-232C port of the terminal emulator as follows.

Baud Rate : 9600 bps*
Data Length : 8 bit
Parity Bit : None
Stop Bit : 1 bit
Flow Control : None

- * This is the factory default setting. If the value of Baud Rate for the projector has been changed, set Baud Rate here according to the changed value on the projector.
- Input "PJS11234" and press the "Enter" key.
- 4 "OK" is displayed. Input "PJS25678" and press the "Enter" key within 10 seconds.
- **5** "OK" is displayed. Press the "Enter" key.
- 6 "User Name:" is displayed. Input the user name and press the "Enter" key.
 - If a user name has not yet been set, just press the "Enter" key.

- 7 "Password:" is displayed. Input the password and press the "Enter" key.
 - If a password has not yet been set, just press the "Enter" key.
- 8 Input "setup" and press the "Enter" key.
 - SETUP MENU will be displayed.

VSETUP MENU



- User name and password are not set in the factory default settings.
- If the user name or password is entered incorrectly three times, SETUP MENU will be quit.

When Connecting Using Telnet

- Click "start" from the Windows® desktop and select "Run".
- 2 Enter "telnet 192.168.150.2" in the text box that opens up. (If the IP address of the projector is 192.168.150.2.)
- 3 Click the "OK" button.
- "User Name:" is displayed. Input the user name and press the "Enter" key.
 - If a user name has not yet been set, just press the "Enter" key.
- **5** "Password:" is displayed. Input the password and press the "Enter" key.
 - If a password has not yet been set, just press the "Enter" key.
- 6 Input "setup" and press the "Enter" key.
 - SETUP MENU will be displayed.

VSETUP MENU

[1]IP Address [2]Subnet Mask [3]Default Gateway [4]User Name [5]Password [6]RS-232C Baud Rate [7]Projector Name [8]DHCP Client [A]Advanced Setup [D]Disconnect All [V]View All Setting [S]Save & Quit [Q]Quit Unchanged setup>

Note

- If the IP address has been changed, be sure to enter the new IP address in step 2.
- User name and password are not set in the factory default settings.
- If the user name or password is entered incorrectly three times in steps 4 or 5, SETUP MENU will be quit.
- If you are using Windows Vista®, activate Telnet Client. For details, see the operation manual of your computer.

SETUP MENU (Main Menu)

VSETUP MENU

[1]IP Address (Factory default setting: 192.168.150.2)
IP address settings. (Page 36)

[2]Subnet Mask (Factory default setting : 255.255.255.0)

Subnet mask settings. (Page 36)

[3]Default Gateway (Factory default setting : Not Used)

Default gateway settings. (Page 36)

[4]User Name (Factory default setting: Not Required)

Setting of user name for security protection. (Page 36)

[5] Password (Factory default setting: Not Required) Setting of password for security protection. (Page 37)

[6]RS-232C Baud Rate (Factory default setting : 9600 bps)

Baud rate settings for the RS-232C terminals. (Page 37)

[7] Projector Name

It is possible to assign a projector name. (Page 37)

[8] DHCP Client

DHCP Client settings. (Page 37)

[A]Advanced Setup

Enters ADVANCED SETUP MENU. (Page 38)

[D]Disconnect All

Disconnect all connections. (Page 38)

[V] View All Setting

Displays all setting values. (Page 34)

Can also be used with ADVANCED SETUP MENU.

[S] Save & Quit

Save set values and quit menu. (Page 35)

[Q]Quit Unchanged

Quit menu without saving setting values. (Page 35)



 The factory default settings for the projector are as follows:

DHCP Client: OFF

IP address: 192.168.150.002 Subnet mask: 255.255.255.000 Default gateway: 000.000.000.000

ADVANCED SETUP MENU

▼ADVANCED SETUP MENU

[1]Auto Logout Time [2]Data Port
[5]Network Ping Test
[6]Accept IP Addr(1) [7]Accept IP Addr(2) [8]Accept IP Addr(3)
[9]Accept All IP Addr [0]Search Port

[!]Restore Default Setting
[Q]Return to Main Menu

advanced>

[1] Auto Logout Time (Factory default setting : 5 minutes)

Setting of time until automatic disconnection of network connection. (Page 38)

[2]Data Port (Factory default setting: 10002)
Setting the TCP port number used when exchanging data. (Page 38)

[5] Network Ping Test

It is possible to confirm that a network connection between the projector and a computer etc. is working normally. (Page 39)

- [6] Accept IP Addr(1)
- [7]Accept IP Addr(2)
- [8] Accept IP Addr(3)
- [9]Accept All IP Addr (Factory default setting : Accept All)

For improved security, it is possible to set up to three IP addresses allowing connection to the projector. Set IP addresses can be cancelled using [9] Accept All IP Addr. (Page 39)

[0] Search Port (Factory default setting: 5006)
Setting the port number used when searching for the projector. (Page 40)

[!] Restore Default Setting

Restores all setting values that can be set using the menu to the default state. (Page 40)

[Q]Return to Main Menu

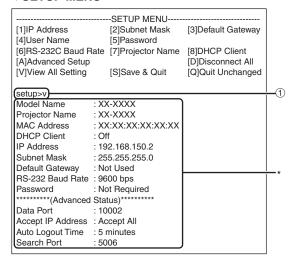
Return to the main SETUP MENU. (Page 40)

Controlling the Projector Using RS-232C or Telnet

Enter number or symbol of item to be selected on the SETUP MENU. When setting, input the details to be set. Setting is carried out one item at a time, and saved at the end.

View Setting Detail List ([V]View All Setting)

VSETUP MENU

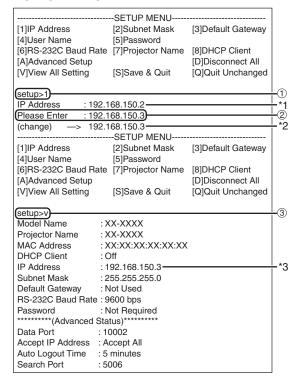


① Enter "v" and press the "Enter" key. Display all setting values(*).

Set Items

Example: When setting IP Address (change from 192.168.150.2 to 192.168.150.3)

VSETUP MENU



- ① Enter "1" (number of item to be set), and press the "Enter" key.
 - Display current IP address (*1).
- ② Enter IP address to be set and press the "Enter" key.
 - Display IP address after change (*2).
- ③ Enter "v" and press the "Enter" key to verify setting detail list.
 - IP address is being changed (*3).

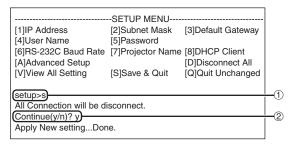


- Verification of setting detail list can be omitted.
- Setting details are not effective until they have been saved. (Page 35)
- If an invalid number is entered, an error message ("Parameter Error!") will be displayed.

Save Settings and Quit ([S]Save & Quit)

Save set values and quit menu.

VSETUP MENU

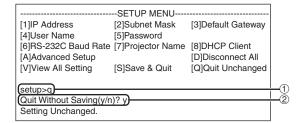


- ① Enter "s" and press the "Enter" key.
- 2 Enter "y" and press the "Enter" key.

Quit without Saving Settings ([Q]Quit Unchanged)

Quit menu without saving setting values.

VSETUP MENU



- ① Enter "q" and press the "Enter" key.
- ② Enter "y" and press the "Enter" key.

Controlling the Projector Using RS-232C or Telnet

The setting procedure for each item will be explained. For the basic procedure, please refer to "Set Items" on page 34.

IP Address Setting ([1]IP Address)

Setting of IP address.

	_ 1
:100 160 150 0	-U
	_
:192.168.150.3	- (2)
192.168.150.3	-*
	:192.168.150.2 :192.168.150.3 192.168.150.3

- ① Enter "1" and press the "Enter" key.
- ② Enter numerical value to be set and press the "Enter" key.

Display IP address after change (*).

Subnet Mask Setting ([2]Subnet Mask)

Setting subnet mask.

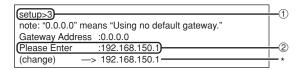
(setup>2)		<u>L</u> a
Subnet Mask	:255.255.255.0	
Please Enter	:255.0.0.0	- 2
(change) —>	255.0.0.0	_ ^

- ① Enter "2" and press the "Enter" key.
- ② Enter numerical value to be set and press the "Enter" key.

Display subnet mask after change (*).

Default Gateway Setting ([3]Default Gateway)

Setting default gateway.



- ① Enter "3" and press the "Enter" key.
- ② Enter numerical value to be set and press the "Enter" key.

Display gateway address after change (*).



• If the values for IP Address, Subnet Mask or Gateway of the projector have been changed via Telnet, the computer cannot be connected to the projector depending on the computer's network settings.

User Name Setting ([4]User Name)

Carrying out security protection using user name.



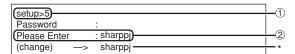
- ① Enter "4" and press the "Enter" key.
- ② Enter user name and press the "Enter" key. Display set user name (*).



- User name can be up to 8 characters.
- You can input the characters below : a-z, A-Z, 0-9, -, _
- In the default state, user name is not set.

Password Setting ([5]Password)

Carrying out security protection using password.



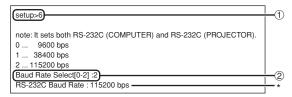
- ① Enter "5" and press the "Enter" key.
- Enter password and press the "Enter" key. Display set password (*).



- Password can be up to 8 characters.
- You can input the characters below : a-z, A-Z, 0-9, -,
- In the default state, the password is not set.

RS-232C Baud Rate Setting ([6]RS-232C Baud Rate)

Setting of baud rate for RS-232C (COMPUTER and PROJECTOR) terminals.



- ① Enter "6" and press the "Enter" key.
- Select and enter the number 0, 1 or 2 and press the "Enter" key.

Display set baud rate (*).



 Set the projector's baud rate to the same rate as that used by the computer.

Projector Name Setting ([7]Projector Name)

It is possible to assign a projector name.



- ① Enter "7" and press the "Enter" key.
- ② Enter projector name. Display set projector name (*).

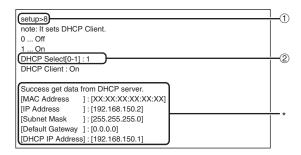


- Projector name can be up to 12 characters.
- You can input the characters below:
 A-Z, 0-9, -, _, (,), space
 (When "a-z" are input, they are converted to "A-Z" automatically.)
- It is the same as the name which can be confirmed or set, using RS-232C commands "PJN0", "PJN1", "PJN2" and "PJN3".

DHCP Client Setting ([8]DHCP Client)

Setting DHCP Client to "On" or "Off".

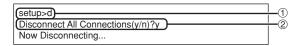
Example: When setting DHCP Client to "On"



- ① Enter "8" and press the "Enter" key.
- ② Enter "1" and press the "Enter" key.
 Display the obtained values (*).

Disconnecting All Connections ([D]Disconnect All)

It is possible to disconnect all the TCP/IP connections currently recognized by the projector. Even if the COM Redirect port is fixed in the Busy status due to a problem, it is possible to force the Ready status back by carrying out this disconnection.



- ① Enter "d" and press the "Enter" key.
- ② Enter "y" and press the "Enter" key.

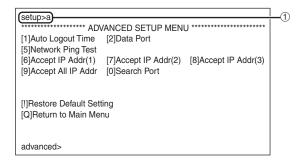


 If Disconnect All is performed, the connection to the projector via network will be forcibly disconnected.

Entering ADVANCED SETUP MENU

([A]Advanced Setup)

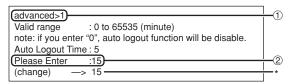
Enters ADVANCED SETUP MENU.



① Enter "a" and press the "Enter" key.

Setting Auto Logout Time (ADVANCED[1]Auto Logout Time)

If there is no input after a fixed time, the projector automatically disconnects network connection using the Auto Logout function. It is possible to set the time until the projector is automatically disconnected in units of a minute (from 1 to 65535 minutes).



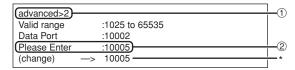
- ① Enter "1" and press the "Enter" key.
- ② Enter numerical value and press the "Enter" key. Display set numerical value (*).



- If the set value is made 0, the Auto Logout function is disabled.
- If an invalid number is entered, an error message ("Parameter Error!") will be displayed and the screen returns to the ADVANCED SETUP MENU.

Data Port Setting(ADVANCED[2]Data Port)

Setting of TCP port number. It is possible to set in the range of 1025 to 65535.



- ① Enter "2" and press the "Enter" key.
- ② Enter numerical value and press the "Enter" key. Display set numerical value (*).

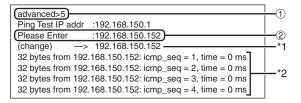


 Set according to need. Normally, use with the factory default setting.

Carrying out Network Ping Test

(ADVANCED[5]Network Ping Test)

It is possible to confirm that a network connection between the projector and a computer etc. is working normally.



- ① Enter "5" and press the "Enter" key.
- Enter IP address of device to be tested and press the "Enter" key.

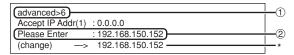
Display entered IP address (*1). Display test result (*2).



- If the "Enter" key is pressed without entering an IP address, the Ping Test IP address used previously is entered.
- If there is a fault with the connection, "Error: No answer" is displayed after a 5 second retry. In this case, please confirm the settings for the projector and the computer, and contact your network administrator.

Setting of Accept IP Address (ADVANCED[6]Accept IP Addr(1) - [8]Accept IP Addr(3))

It is possible to improve security of the projector by allowing connection from only a prescribed IP address. It is possible to set up to three IP addresses allowing connection to the projector.



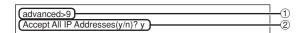
- ① Enter "6", "7" or "8" and press the "Enter" key.
- ② Enter numerical value and press the "Enter" key. Display set numerical value (*).



- To invalidate the Accept IP Addr being currently set, enter "0.0.0.0".
- If there is one or more Accept IP Addr being set, no connections are allowed from IP addresses that are not yet set. They can be cancelled using [9]Accept All IP Addr.

Accepting All IP Addresses (ADVANCED[9]Accept All IP Addr)

Removes IP addresses set with "Accept IP Addr".



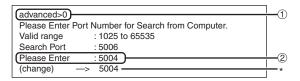
- ① Enter "9" and press the "Enter" key.
- 2 Enter "y" and press the "Enter" key.



- At the point in time where "y" was entered, the numerical values for Accept IP Addr(1)-(3) are reset to "0.0.0.0".
- If "n" is entered, setting is not altered.

Setting of Search Port (ADVANCED[0]Search Port)

Sets the port number used when searching for the projector from the network.



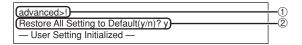
- ① Enter "0" and press the "Enter" key.
- ② Enter numerical value and press the "Enter" key. Display set numerical value (*).



Set according to need. Normally, use with the factory default setting.

Return to Default Settings (ADVANCED[!]Restore Default Setting)

Returns all menu setting values to the default state.



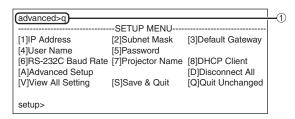
- ① Enter "!" and press the "Enter" key.
- ② Enter "y" and press the "Enter" key.



If the values for IP Address, Subnet Mask or Gateway of the projector have been returned to the
default settings via Telnet, the computer cannot
be connected to the projector depending on the
computer's network settings.

Return to Main Menu (ADVANCED[Q]Return to Main Menu)

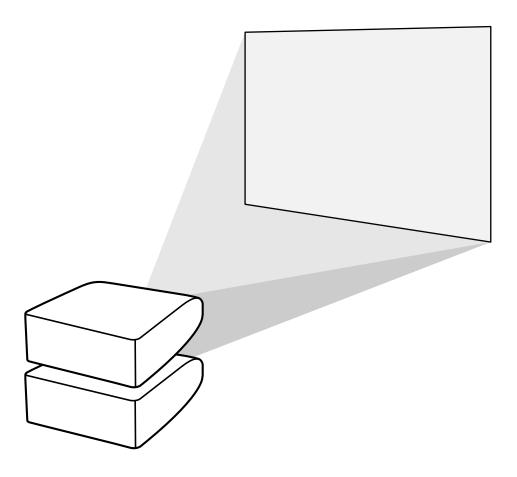
Returns to the main SETUP MENU.



① Enter "q" and press the "Enter" key.
Returns to the SETUP MENU.

Stack Projection

The stack projection allows you to increase the brightness of an image by stacking two projectors and projecting same image simultaneously.





- To set up the stack projection, assign a projector as the master and the other projector as the slave and connect the projectors with commercially available LAN cables (UTP cable, Category 5, <u>cross-over type</u>). In this way, you can control the both projectors with one remote control.
- The buttons below can control both the master and the slave at one time.
 - ON button

VOLUME buttons

STANDBY button

AUTO SYNC button

SHUTTER button

- RESIZE button
- COMPUTER1/2, DVI, HDMI, VIDEO, S-VIDEO buttons
- PICTURE MODE button

VIDEO, O-VIDEO

BREAK TIMER button

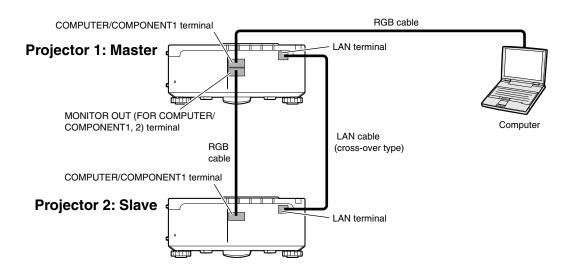
MUTE button

- FREEZE button
- In normal operation, the projector set as the slave cannot be controlled by the remote control. Only while the remote control is connected to the projector with a Ø3.5 mm minijack cable (commercially available or available as Sharp service part QCNWGA038WJPZ), the projector set as the slave can be controlled by the remote control.
- Even while the projector is set as the slave, the buttons on the projector can be used.

Setting up the Stack Projection

Basic

This part shows an example for setting up the stack projection of a computer image with two projectors.



- Set the "Stack Setting" of the projector 1 to "Master".
 - (See page 62 on the projector operation manual.)
- 2 Set the "Stack Setting" of the projector 2 to "Slave".
 - (See page 62 on the projector operation manual.)
- 3 Perform "Pair Stack" of the both projectors.

(See page 63 on the projector operation manual.)

Select inputs as specified in the table below.

(See page 63 on the projector operation manual.)

Projector 1

Projector 2

Master		Slave	
Set Inputs		Set Inputs	
COMPUTER1	ON	COMPUTER1	ON
COMPUTER2	OFF	COMPUTER2	OFF
DVI	OFF	DVI	OFF
HDMI	OFF	HDMI	OFF
VIDEO	OFF	VIDEO	OFF
S-VIDEO	OFF	S-VIDEO	OFF

Turn off the both projectors.

- 6 Connect the COMPUTER/COMPONENT1 terminal on the projector 1 to the RGB output terminal on the computer using the RGB cable.

 (See page 24 on the projector operation manual.)
- 7 Connect the MONITOR OUT (FOR COMPUTER/COMPONENT1, 2) terminal on the projector 1 to the COMPUTER/COMPONENT1 terminal on the projector 2 using an RGB cable. (See page 27 on the projector operation manual.)

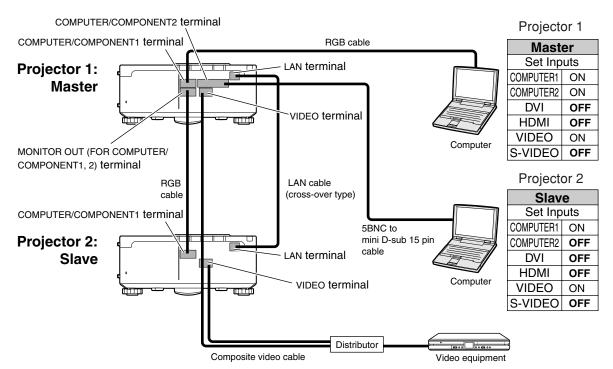


When connecting an RGB cable to the projector 2, use the input terminal that has
the same number as the projector 1.
(COMPUTER/COMPONENT1 terminal, in
this case)

- 8 Connect the LAN terminal on the projector 1 to the LAN terminal on the projector 2 using a commercially available LAN cable (UTP cable, Category 5, cross-over type).
 - Turn on the projectors first, then turn on the computer.

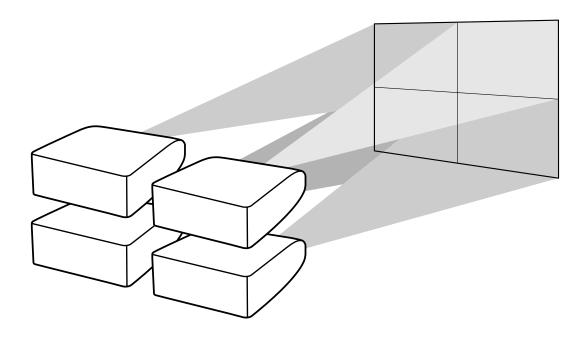
Application

When inputting multiple image sources, refer to the example below.



Video Wall Projection

Usually, a costly image-processing device is required to set up a video wall projection. This projector has built-in video wall capability that doesn't require additional equipment.

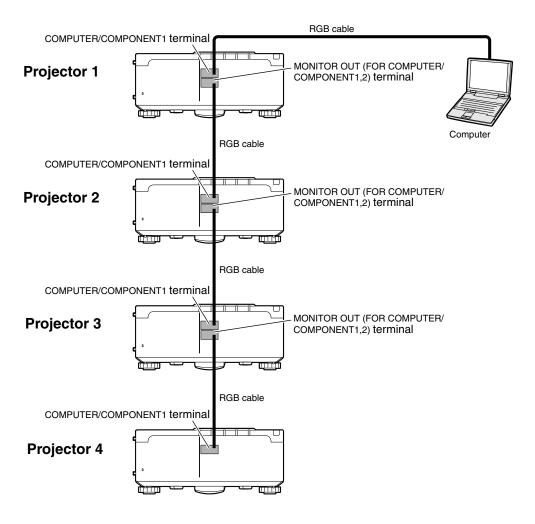




- Before setting up the video wall projection, install Internet Explorer (version 5.0 or later).
- Video wall is not compatible with resolutions higher than SXGA.
- Image quality may deteriorate when picture signals are input through multiple projectors with an RGB cable or an RCA cable in a daisy chain connection.

Setting up the Video Wall Projection Basic

Following is an example of how to build a 2 X 2 video wall using 4 projectors.



Video Wall Projection

Access one of the four projectors via Internet Explorer.

(See "Controlling the Projector Using Internet Explorer (Version 5.0 or later)" (page **26**) for the details.)

- 2 Click "Video Wall" on the menu.
 - "Video Wall" display will appear.
- 3 Select "2 X 2" on "Division".

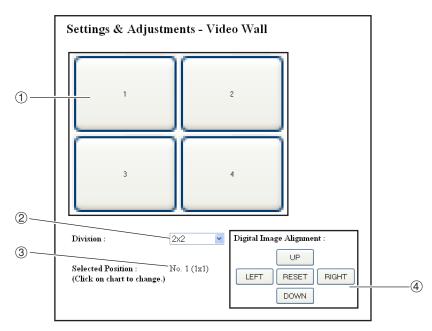
4 Click the assigning button for the desired position.

 The projector will be assigned to the part of the video wall.



- For more details on the assigned position and the actual position of the projector, see "Assigning the Projected Image on the Video Wall Setup" (page 47).
- Repeat the same procedure from the step 1 to 4 for the other three projectors.

That completes the video wall setup. When the same image signal is input to all the projectors, the video wall projection starts.



- ① Selects a position for each projector. (the assigning buttons)
- 2 Selects a number of positions where the video wall is divided.
- 3 Displays the current status for the video wall setup.
- 4 Adjusts the position of the projected image horizontally and vertically.

Adjusting the Position Horizontally and Vertically

Click "UP", "DOWN", "LEFT" or "RIGHT" to the position of the projected image.

Returning to the Default Video Wall Setup

1 Select "1 X 1" on "Division".

Click the assigning button 1.The video wall setup will return to the default settings.

Assigning the Projected Image on the Video Wall Setup

Followings are examples for assigning the projected images for the front and rear projections.

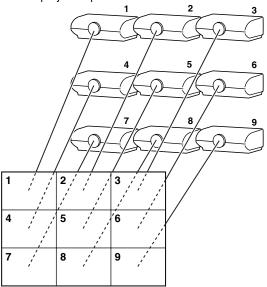
Front Projection

1 2 3 4 5 6 7 8 9

The numbers of the projector refer to the numbers of the projected positions.

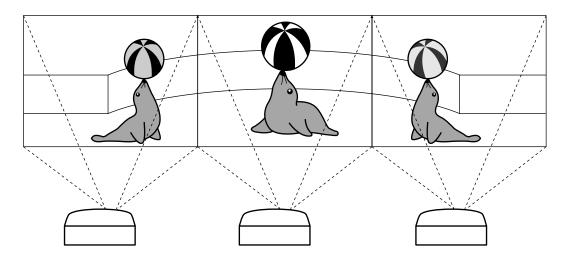
Rear Projection

The numbers of the projector refer to the numbers of the projected positions.

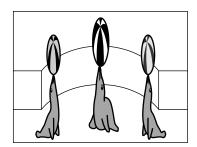


Notes on the Wide Video Wall Projection

Selecting "2 X 1", "3 X 1", "4 X1", "5 X 1", "6 X 1", "7 X 1" or "8 X 1" on "Division" (see page 46) allows you to create the wide video wall.



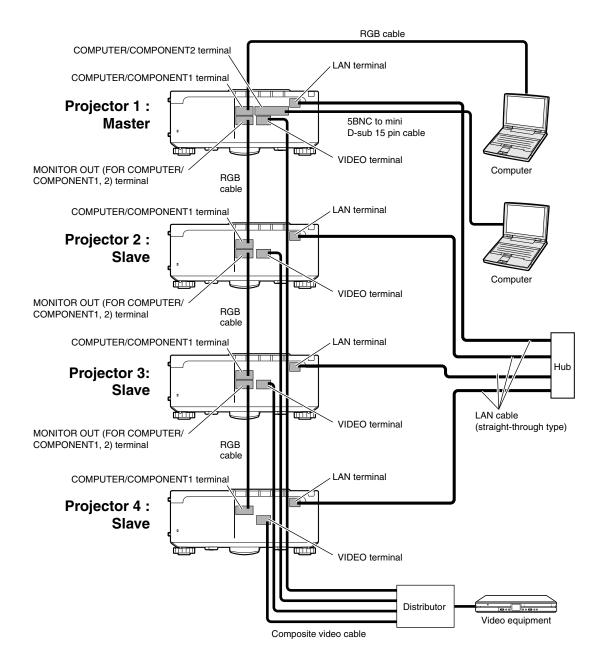
To create the wide video wall with three projectors lining up in single file from left to right (as shown above), select "3 X 1" on "Division", select a position for each projector, and then input the image which width is compressed at 1/3 (as shown below).



Setting up the Video Wall Projection Application

Using "Stack Setting" and "Set Inputs" functions together allows you to control the video wall with one remote control.

This part shows an example of a connecting procedure for inputting the video signals to the video wall based on the example in the previous section.



■ Preparation

- Follow the procedure below after setting up the basic connection.
- When "User Name" and "Password" have been set to the projector, reset them before the stack projection setup. To set "User Name" and "Password", use the same user name and password for both of the master and slave projectors. (See page 28.)
- Set "Data Port" with the same number for both of the master and slave projectors. (See page 29.)

Info

• Do not use network software or equipment while it is accessing the projector via the port of the same number used for the master or slave projector, otherwise you cannot properly control multiple projectors with one remote control.

Change the TCP/IP settings for the computer as shown below.

(See "Setting an IP Address for the Computer" on page **22** for the details.)

IP address : 192.168.150.2Subnet mask : 255.255.255.0

• Default gateway: (Do not input any values.)

Note

- The TCP/IP settings shown are examples to make connections following the diagram.
- When using other equipment in the same network, be careful about the IP address overlap or other network settings.
- Consult your network administrator for assistance with the network settings.

Change the TCP/IP settings for each projector as shown below.

(See "Setting up a Network Connection for the Projector" on page 24 for the details.)

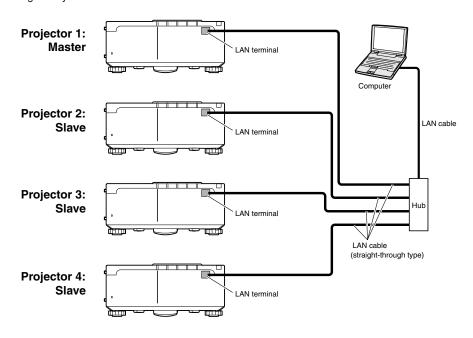
 IP address Projector 1 : 192.168.150.3 Projector 2 : 192.168.150.4

Projector 3 : 192.168.150.5 Projector 4 : 192.168.150.6

• Subnet mask : 255.255.255.0

Default gateway : 0.0.0.0

Connect the computer and the projectors as shown below.



- 4 Turn on all of the projectors.
- Access the projector 1 from the computer via Internet Explorer.

 (See "Controlling the Projector Using Internet Explorer (Version 5.0 or later)" on page 26 for the details.)
- 6 Click "Stack" on the menu.
- 7 Select "Master" on "Stack Setting".

 "Slave Address" display will appear.

Stack Setting	Master 💌
Slave 1	0 0 0 (IP Address)
lave 2	0 0 0 (IP Address)
lave 3	0 .0 .0 (IP Address)
lave 4	0 .0 .0 (IP Address)
Slave 5	0 0 0 (IP Address)

- 8 Make the IP address for each projector as shown below.
 - Slave 1: 192.168.150.4Slave 2: 192.168.150.5
 - Slave 3: 192.168.150.6
- 9 Click the "Apply" button.
- Access the projector 2 from the computer via Internet Explorer.

(See "Controlling the Projector Using Internet Explorer (Version 5.0 or later)" on page **26** for the details.)

- 11 Click "Stack" on the menu.
- 12 Select "Slave" on "Stack Setting".

Video Wall Projection

- Repeat the same procedure from the step 10 to 12 for the projector 3 and 4.
- Select inputs as specified in the table on the right.

(See page **63** on the projector operation manual.)



- Set input terminals you will use to "ON".
 Set input terminals you will not use to "OFF".
- 15 Turn off all of the projectors.
- Make connections following the diagram shown on page 49.
- Turn on the projectors first, then turn on the computers and the video equipment.



• Image quality may deteriorate when picture signals are input through multiple projectors with an RGB cable in a daisy chain connection.

Projector 1

Projector 2-4

Master				
Set Inputs				
COMPUTER1	ON			
COMPUTER2	ON			
DVI	OFF			
HDMI	OFF			
VIDEO	ON			
S-VIDEO	OFF			

Slave				
Set Inputs				
COMPUTER1	ON			
COMPUTER2	OFF			
DVI	OFF			
HDMI	OFF			
VIDEO	ON			
S-VIDEO	OFF			

Resetting the Lamp Timer of the Projector via LAN

When the projector is connected to a network, you can use the communications program to send a command to reset the lamp timer. The example below uses Windows® XP as the operating system. When you use Windows Vista®, use other communications program referring to the following steps, because Windows Vista® does not come with HyperTerminal.

- Click "Start" "All Programs" "Accessories" "Communications" "HyperTerminal".
 - If you do not have HyperTerminal installed, see the operation manual of your computer.
 - Depending on the settings of your computer, you may be required to enter your area code and other details. Enter the information as required.
- Enter a name in the "Name" field, and click "OK".

- If you are required to enter the area code, enter it in the "Area code" field. From the "Connect using" drop-down menu, select "TCP/IP (Winsock)", and click "OK".
- 4 Enter the IP address of the projector in the "Host address" field (see "TCP/IP" on the "Network" menu of the projector), and enter the data port of the projector in the "Port number" field ("10002" is the factory default setting), and click "OK".







Resetting the Lamp Timer of the Projector via LAN

Click "Properties" on the "File" menu.

6 Click the "Settings" tab, and then click "ASCII Setup".

7 Select the check boxes next to "Send line ends with line feeds", "Echo typed characters locally", and "Append line feeds to incoming line ends", and click "OK".

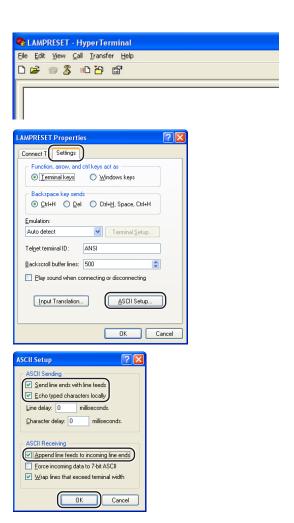
 The LAMPRESET Properties window appears, click "OK".

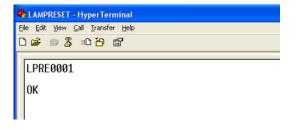
If a user name and/or password is set for the projector, enter the user name and password.

9 Send the lamp reset command. "LPRE0001" for LAMP 1 "LPRE0002" for LAMP 2

- These commands can only be sent when the projector is in standby mode.
- When "OK" is received, this indicates that the lamp was successfully reset.







Troubleshooting

Communication cannot be established with the projector

When connecting the projector using serial-connection

- Check that the RS-232C terminal of the projector and a computer or the commercially available controller are connected correctly.
- Check that the RS-232C cable is a cross-over cable.
- Check that the RS-232C port setting for the projector corresponds to the setting for the computer or the commercially available controller.

When connecting the projector to a computer using network (LAN)-connection

- Check that the cable's connector is firmly inserted in the LAN terminal of the projector.
- Check that the cable is firmly inserted into a LAN port for a computer or a network device such as a hub.
- Check that the LAN cable is a Category 5 cable.
- Check that the LAN cable is a cross-over cable when connecting the projector to a computer directly.
- Check that the LAN cable is a straight-through cable when connecting the projector with a network device such as a hub.
- Check that the power supply is turned on for the network device such as a hub between the projector and a computer.

Check the network settings for the computer and the projector

- Check the following network settings for the projector.
 - IP Address
 - Check that the IP address for the projector is not duplicated on the network.
 - Subnet Mask
 - When the gateway setting for the projector is "0.0.0.0" (Not Used), or the gateway setting for the projector and the default gateway setting for the computer are the same:
 - The subnet masks for the projector and the computer should be the same.
 - The IP address parts shown by the subnet mask for the projector and the computer should be the same.

(Example)

When the IP address is "192.168.150.2" and the subnet mask is "255.255.255.0" for the projector, the IP address for the computer should be "192.168.150.X" (X=3-254) and the subnet mask should be "255.255.255.0".

Gateway

When the gateway setting for the projector is "0.0.0.0" (Not Used), or the gateway setting for the projector and the default gateway setting for the computer are the same:

- The subnets for the projector and the computer should be the same.
- The IP address parts shown by the subnet mask for the projector and the computer should be the same.

(Example)

When the IP address is "192.168.150.2" and the subnet mask is "255.255.255.0" for the projector, the IP address for the computer should be "192.168.150.X" (X=3-254) and the subnet mask should be "255.255.255.0".

Data Port

Other computers should not use the data port of the projector.

The data port should be used for communication during the stack projection.



The factory default settings for the projector are as follows:

DHCP Client: OFF

IP address: 192.168.150.2 Subnet mask: 255.255.255.0 Gateway address: 0.0.0.0 (Not Used)

• For network settings for the projector, refer to page 24.

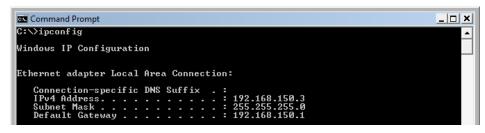
Troubleshooting

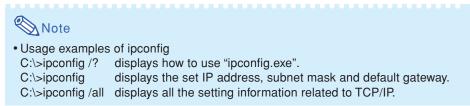
- Take the following steps for checking the network settings for the computer.
 - 1. Open a command prompt.
 - In the case of Windows[®] 2000: click "start" → "Programs" → "Accessories" → "Command Prompt" in order.
 - In the case of Windows® XP, Windows Vista®: click "start" → "All Programs" → "Accessories"
 → "Command Prompt" in order.
 - After launching the command prompt, enter the command "ipconfig", and press the "Enter" key.



 Communication may not be established even after carrying out the network settings for the computer. In such cases, restart your computer.

C:\>ipconfig





3. To return to the Windows® screen, enter "exit" and press the "Enter" key.

Troubleshooting

- Check if the "TCP/IP" protocol is operating correctly using the "PING" command. Also, check
 if an IP address is set.
 - 1. Open a command prompt.
 - In the case of Windows[®] 2000: click "start" → "Programs" → "Accessories" → "Command Prompt" in order.
 - In the case of Windows® XP, Windows Vista®: click "start" → "All Programs" → "Accessories"
 → "Command Prompt" in order.
 - 2. After launching the command prompt enter a command "PING".
 - Entry example C:\>ping XXX.XXX.XXXXXXXX
 - "XXX.XXX.XXX" should be entered with an IP address to be connected to, such as the projector.
 - When connecting normally, the display will be as follows.
 (The screen may be slightly different depending on the OS type.)
 Example> when the IP address connected to is "192.168.150.1"

```
C:\ping 192.168.150.1

Pinging 192.168.150.1 with 32 bytes of data:

Reply from 192.168.150.1: bytes=32 time(1ms TTL=64

Reply from 192.168.150.1: bytes=32 time(1ms TTL=64

Reply from 192.168.150.1: bytes=32 time(1ms TTL=64

Reply from 192.168.150.1: bytes=32 time(1ms TTL=64

Reply from 192.168.150.1: bytes=32 time(1ms TTL=64

Ping statistics for 192.168.150.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

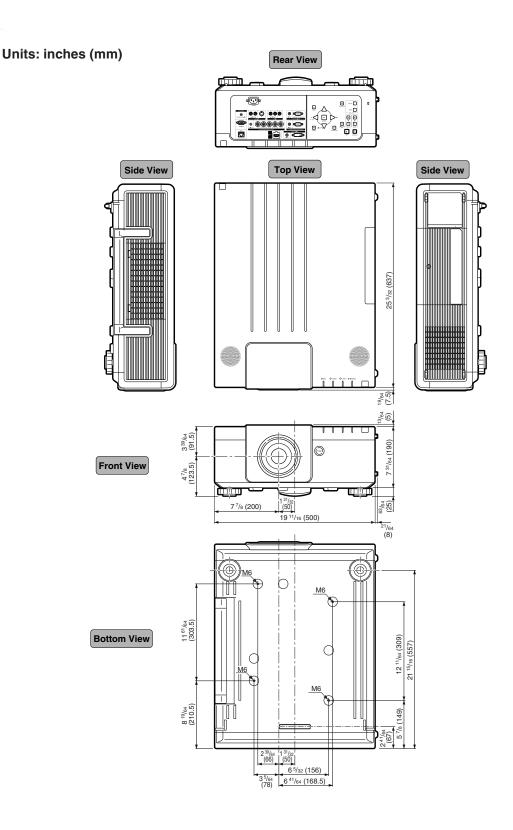
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

- When a command cannot be sent, "Request time out" will be displayed. Check the network setting again.
 - If communication can still not be established properly, contact your network administrator.
- 5. To return to the Windows® screen, enter "exit" and then press the "Enter" key.

A connection cannot be made because you have forgotten your user name or your password.

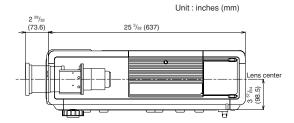
- Initialize the settings. (See page 65 of the projector's operation manual.)
- After the initialization, carry out setting again.

Dimensions

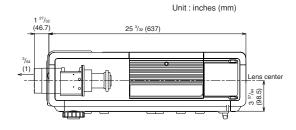


Projector and Lens Dimensions

[When AN-P8EX is installed]

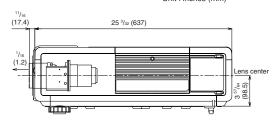


[When AN-P12EX is installed]



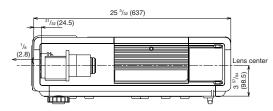
[When AN-P15EZ is installed]

Unit : inches (mm)



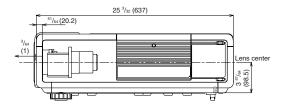
[When AN-P18EZ is installed]

Unit: inches (mm)



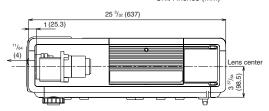
[When AN-P23EZ is installed]

Unit: inches (mm)



[When AN-P30EZ is installed]

Unit : inches (mm)



[When AN-P45EZ is installed]

Unit: inches (mm)

